XRPX Acc No: N2008-838263

Product e.g. make-up product, packaging and application device, has operating device for moving applicator roll in housing between open and closed positions, where roll is pressed against inlet of product to close inlet in closed position

Patent Assignee: L'OREAL SA (OREA)

Inventor: **DE LAFORCADE V** 

Patent Famil	y ( 1 p	atents, 1 c	ountries	)
Patent Number	Kind	Date	Update	Type
FR 2914625	A1	20081010	200867	В

Local Applications (no., kind, date): FR 200754250 A 20070403 Priority Applications (no., kind, date): FR 200754250 A 20070403

#### Alerting Abstract FR A1

NOVELTY - The device (1) has a **container** (2) for containing a product to be applied, and an **applicator** roll (3) partially engaged in a housing. An operating device (7) is relatively mobile to the **container** and integerated with the **container** during utilization of the device for moving the roll in the housing between open and closed positions. The open position allows the rotation of the roll in the housing and flow of the product between an inlet of the product and the roll. The roll is pressed against the inlet of the product in a manner to close the inlet in the closed position.

USE - Device for packaging and application of a product e.g. make-up product and skin care product. ADVANTAGE - The structure of the **applicator** roll is simple and inexpensive, permits to obtain a **sealed** closure of the **container** in an absence of utilization in a reliable and complete manner, while serving the **applicator** roll as an obturation unit, and allows realizations of the operating device with less number of constituent pieces.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic perspective view of a product packaging and application device.

- 1 Product packaging and application device
- 2 Container
- 3 Applicator roll
- 7 Operating device
- 14 Body

5/25/2 (Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0016119324 *Drawing available*WPI Acc no: 2006-650954/200668
XRPX Acc No: N2006-525009

Cosmetic product e.g. hair color, packaging and application device's distribution orifice sealing assembly, has case with sealing unit and device having product container with applicator end having orifice to distribute product, when opened

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
FR 2883555	A1	20060929	200668	В

Local Applications (no., kind, date): FR 200550773 A 20050324 Priority Applications (no., kind, date): FR 200550773 A 20050324

## Alerting Abstract FR A1

NOVELTY - The assembly has a cosmetic product packaging and application device (2) with a

container containing a product to be distributed. The container has an applicator end with a distribution orifice (21) sealed in a removable manner by a closing unit. The orifice, when released, allows the distribution of the product. A case (3) housing the device has a base with a sealing unit (19) having a portion (20) to seal the orifice.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of applying a product contained in a cosmetic product packaging device.

USE - Used for **sealing** a distribution orifice of a cosmetic product e.g. hair color, packaging and application device (claimed).

ADVANTAGE - The case permits the **container** of the cosmetic product packaging and application device to rest in a stable manner in a head-down position **inside** it, so that the orifice is maintained under the outgoing flow from the **container** by gravity. The assembly therefore provides a simple, clean, economical and effective **means** for presenting the packaging and application device in a position such that the contents of the **container** are maintained by gravity near the distribution orifice, between **two** uses, without modifying the structure of the device. The user thus can apply the product in a reliable manner, without the risk of staining himself/herself, while being able to rest his/her arms between **two** applications, without distorting the duration necessary for the total application of the product. The assembly hence permits to significantly **reduce** the duration necessary for the total application of the product. The **sealing** unit prevents the product from flowing **inside** the case when the orifice is released. The assembly can also provide the storage of a complete hair treatment kit including a **comb**, gloves, and a note.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic sectional view of a cosmetic product packaging and application device`s distribution orifice **sealing** assembly.

2 Cosmetic product packaging and application device

3 Case

19 Sealing unit

20 Portion

21 Distribution orifice

5/25/3 (Item 3 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0015370477 *Drawing available*WPI Acc no: 2005-788810/200581
XRPX Acc No: N2005-653069

Fluid product e.g. cosmetic product, packaging and applying device, has container forming housing which contains dose of product, and lid integrated with upper rigid support and extending in part around opening

Patent Assignee: L'OREAL SA (OREA) Inventor: **DE LAFORCADE V**; DE L V

Patent Family ( 6 patents, 38 countries )					
Patent Number	Kind	Date	Update	Type	
EP 1600385	A1	20051130	200581	В	
US 7478962	B2	20090120	200907	E	
FR 2870828	A1	20051202	200581	E	
US 20050265773	A1	20051201	200581	E	
JP 2005343566	Α	20051215	200582	E	
JP 4101817	B2	20080618	200841	E	

Local Applications (no., kind, date): EP 2005290916 A 20050426; US 2004577168 P 20040607; US 2005137585 A 20050526; FR 200451031 A 20040526; US 2004577168 P 20040607; US 2005137585 A 20050526; JP 2005153371 A 20050526; JP 2005153371 A 20050526 Priority Applications (no., kind, date): FR 200451031 A 20040526

#### Alerting Abstract EP A1

NOVELTY - The device has a **container** (2) forming a housing (6) which contains a dose of a product. The **container** is integrated with a porous **applicator** (12) which is disposed in a housing, when an opening (4) is **sealed** by a **lid** (7). The **applicator** extends across the opening in open position of the **container**. The **lid** is integrated with an upper rigid support (9) and extends in a part around the opening.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- a product packaging and applying kit including a set of fluid product packaging and applying devices
- b. utilization of a fluid product packaging and applying device.

USE - Used in a kit (claimed) for packaging and applying a fluid product e.g. cosmetic and skin care products.

ADVANTAGE - The support can be gripped easily by a user with one hand and other hand can be utilized to disengage the **container** from the support to release the opening of the **container** in a simple and easier manner. The user does not need to directly grip the cover to release the opening of the **container**. The hands of the user are maintained remotely from the porous **applicator** and the disengagement of the **container** with the cover allows to keep the hands apart, thus avoiding a non-desired contact between the hand holding the support and the **applicator**. The device is less cumbersome and easily transportable, and allows a practical application of the product in a simple manner. The device can be opened in an easy manner without making dirtying the user's fingers from, and allows to avoid contamination of the product with his fingers even before the first use. DESCRIPTION OF DRAWINGS - The drawing shows a longitudinal sectional view of a fluid product packaging and applying device.

- 2 Container
- 4 Opening
- 6 Housing
- 7 Lid
- 9 Rigid support
- 12 Porous applicator

5/25/4 (Item 4 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0014837232 Drawing available WPI Acc no: 2005-184932/200520 XRAM Acc no: C2005-059232 XRPX Acc No: N2005-154184

Pack for disc-shaped applicators e.g. impregnated with cosmetic product has inner support with series of spacers hinged at one side

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V; DELAFORCADE V

Patent Family ( 4 patents, 35 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 1508534	A1	20050223	200520	В	
FR 2858971	A1	20050225	200520	E	
JP 2005066344	Α	20050317	200520	E	
US 20050040067	A1	20050224	200520	E	

Local Applications (no., kind, date): EP 2004300536 A 20040813; FR 200310055 A 20030820; JP 2004240837 A 20040820; US 2003502964 P 20030916; US 2004914168 A 20040810

Priority Applications (no., kind, date): FR 200310055 A 20030820

## Alerting Abstract EP A1

NOVELTY - A pack (1), holding a series of **applicators** e.g. in the form of discs 0.5 - 3 mm thick that can be impregnated with a cosmetic product in liquid or powder form, consists of a **container** (21) with a **lid** (23) and an **inner** moulded plastic support (10).

DESCRIPTION - The pack (1), holding a series of **applicators** e.g. in the form of discs 0.5 - 3 mm thick that can be impregnated with a cosmetic product in liquid or powder form, consists of a **container** (21) with a **lid** (23) and an **inner** moulded plastic support (10). The support has a series of spacers (12) that are hinged bat one side so they can open to expose the **applicators** one at a time, and its base (11) is designed to be retained in the **container**, e.g. by flexible lugs. **One or more** of the **applicators** can have its **two** surfaces impregnated with **different** substances, or the **applicators** can all be impregnated with a product filling the **container**.

USE - Containing **applicators** for cosmetic or other products used on the skin, mucous membranes, hair or nails.

ADVANTAGE - The **applicators** are protected prior to use and presented one at a time. DESCRIPTION OF DRAWINGS - The drawing shows a vertical section of the **applicator** pack.

1 Pack

10 Plastic support

11 Support base

12 Spacers

21 Container

23 Lid

5/25/5 (Item 5 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0014675025 Drawing available WPI Acc no: 2005-022608/200503 XRPX Acc No: N2005-019515

Hair coloring product container, has body with side configured such that, when container rests by side on surface, reduction in product causes back and forth movement of container without letting product to flow via outlet opening

Patent Assignee: DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: **DE LAFORCADE V** 

Patent Family ( 10 patents, 35 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 1491110	A1	20041229	200503	В	
FR 2856254	A1	20041224	200507	E	
JP 2005013730	Α	20050120	200508	E	
US 20050025557	A1	20050203	200511	E	
US 7168433	B2	20070130	200710	E	
JP 4006420	B2	20071114	200778	E	
EP 1491110	В1	20080213	200813	E	
DE 602004011702	E	20080327	200824	E	
ES 2301953	ТЗ	20080701	200848	E	
DE 602004011702	T2	20090129	200909	E	

Local Applications (no., kind, date): EP 2004300392 A 20040623; FR 20037546 A 20030623; JP 2004184785 A 20040623; US 2003485711 P 20030710; US 2004873172 A 20040623; US 2003485711 P 20030710; US 2004873172 A 20040623; JP 2004184785 A 20040623; EP 2004300392

A 20040623; DE 062004011702 A 20040623; EP 2004300392 A 20040623; EP 2004300392 A 20040623; DE 602004011702 A 20040623; EP 2004300392 A 20040623

Priority Applications (no., kind, date): FR 20037546 A 20030623; EP 2004300392 A 20040623

#### Alerting Abstract EP A1

NOVELTY - The **container** (1) has a body (10), and an **applicator** part (22) with an outlet opening to distribute a hair colo**ring** product contained at interior of the **container**. A side of the body is configured such that, while the **container** rests by the side on a horizontal plane surface, a **reduction** in the quantity of the product causes a back and forth movement of the **container** without allowing the product to flow through the opening.

USE - Used for containing a hair coloring product (claimed) that is utilized for hair dressing. ADVANTAGE - The reduction in the quantity of the product causes the back and forth movement of the container without letting the product to flow through the opening, thus allowing the container to be laid down after utilization without requiring attention, and limiting a risk of accidental flow of the product. The container is simple to manufacture and is of less cost. The product can be placed in the vicinity of the outlet opening when the container is placed on the horizontal surface, thus allowing hair dressing to be carried out rapidly, precisely and more comfortably.

DESCRIPTION OF DRAWINGS - The drawing shows a perspective and schematic view of a container.

- 1 Container
- 10 Body
- 14 Recess
- 20 Distribution head
- 22 Applicator part

5/25/6 (Item 6 from file: 350)
DIALOG(R)File 350: Derwent WPIX

\*\*\* current application \*\*\*
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0013944795 Drawing available WPI Acc no: 2004-125225/200413 XRPX Acc No: N2004-100274

Bottle for hair bleach has threaded neck made up of top section of smaller diameter, on to which cap screws, and lower section of larger diameter, on to which accessories can be screwed

Patent Assignee: L'OREAL SA (OREA) Inventor: **DE LAFORCADE V** 

Patent Family ( 6 patents, 32 countries )					
Patent Number	Kind	Date	Update	Туре	
FR 2842504	A1	20040123	200413	В	
EP 1384415	A1	20040128	200413	E	
US 20040124117	A1	20040701	200444	E	
EP 1384415	B1	20090318	200920	E	
DE 60326675	***********	20090430			
ES 2322571	ТЗ	20090623	200944	E	

Local Applications (no., kind, date): FR 20029057 A 20020717; EP 2003291739 A 20030711; US 2002411383 P 20020918; US 2003619891 A 20030715; EP 2003291739 A 20030711; DE 60326675 A 20030711; EP 2003291739 A 20030711; EP 2003291739 A 20030711 Priority Applications (no., kind, date): FR 20029057 A 20020717

## Alerting Abstract FR A1

NOVELTY - The **bottle** (2) for hair bleach has a **thread**ed **neck** made up of a **top** section (6) of **smaller diameter**, on to which the **cap screw**s, and a **lower** section (7) of **larger diameter**, on to

which accessories (15) can be screwed.
DESCRIPTION - INDEPENDENT CLAIMS are included for:

- A. the combination of the bottle and an accessory; and
- B. an applicator which can be fitted on the bottle.

USE - Bottle for hair bleach.

ADVANTAGE - **Accessories** can be **fitted** on the **bottle** without the use of **adapt**ers. DESCRIPTION OF DRAWINGS - The drawing shows a cross-section of the **top** of the **bottle** with an **applicator fitted**.

2 Bottle

6 Narrower top section of neck

7 Wider bottom section of neck

15 Applicator 28, 29 Thread

5/25/7 (Item 7 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0013944193 *Drawing available*WPI Acc no: 2004-124619/200413
XRAM Acc no: C2004-050346
XRPX Acc No: N2004-099705

Applicator, to prepare/ deliver a hair coloring product, has chambers to hold the ingredients and flexible walls for the liquid container to force it through an elastic body into the second chamber to blend with its contents

Patent Assignee: DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: DE L V; **DE LAFORCADE V**; DELAFORKAD V

Patent Family ( 16 patents, 36 countries )					
Patent Number	Kind	Date	Update	Type	
EP 1382536	A1	20040121	200413	В	
JP 2004035112	Α	20040205	200413	E	
FR 2843100	A1	20040206	200419	E	
FR 2843101	A1	20040206	200419	E	
US 20040060831	A1	20040401	200425	E	
CN 1475415	Α	20040218	200430	E	
KR 2004010171	Α	20040131	200436	E	
BR 200302919	Α	20040824	200458	E	
US 7028869	B2	20060418	200627	E	
EP 1382536	В1	20060614	200643	E	
DE 60306043	E	20060727	200651	E	
JP 3837403	B2	20061025	200670	E	
DE 60306043	T2	20061207	200680	E	
KR 530202	В	20051122	200682	E	
CN 1273358	С	20060906	200706	E	
ES 2266752	ТЗ	20070301	200719	E	

20028915 A 20020715; FR 200214830 A 20021126; US 2002397659 P 20020723; US 2003617692 A 20030714; CN 2003147601 A 20030714; KR 200347870 A 20030714; BR 20032919 A 20030711; US 2002397659 P 20020723; US 2003617692 A 20030714; EP 2003291530 A 20030623; DE 60306043 A 20030623; EP 2003291530 A 20030623; JP 2003274899 A 20030715; DE 60306043 A 20030623; EP 2003291530 A 20030623; KR 200347870 A 20030714; CN 2003147601 A 20030714; EP 2003291530 A 20030623

Priority Applications (no., kind, date): FR 20028915 A 20020715; FR 200214830 A 20021126; EP 2003291530 A 20030623

#### Alerting Abstract EP A1

NOVELTY - The **applicator** unit (1), to blend together ingredients for the preparation of a cosmetic products, has at least one chamber (9,12) to hold the ingredients e.g. as a liquid and a powder. A body (20), at least partially with elastic compression, is **within** a passage formed by the structure. The walls (2,3) of the **lower container** can be squeezed by hand to develop an internal pressure to force the fluid into the passage and displace the elastic body to pass into the **second container**, and be delivered out of the unit through the **applicator** (10).

USE - The system is especially for mixing the ingredients of a cosmetic product immediately before use, and particularly a hair coloring product.

ADVANTAGE - The ingredients for the hair coloring are blended together effectively at the time of use, in a low cost structure which is easily handled.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic section through the applicator unit.

1 applicator unit

2,3 lower chamber walls

9,12 ingredient holding chambers

10 applicator

20 elastic foam body

5/25/8 (Item 8 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0013921763 *Drawing available*WPI Acc no: 2004-101582/200411
XRPX Acc No: N2004-081103

Applicator for hair care product has comb with hollow teeth and lateral outlets adjacent to tips, fitted over container opening

Patent Assignee: BONNEYRAT P (BONN-I); DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: BONNEYRAT P; DE L V; DE LAFORCADE V; DELAFORCADE V

Patent Family ( 15 patents, 36 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 1382271	A1	20040121	200411	В	
US 20040016440	A1	20040129	200413	E	
FR 2842439	A1	20040123	200414	E	
FR 2842440	A1	20040123	200414	E	
JP 2004089705	Α	20040325	200422	E	
CN 1471876	Α	20040204	200427	E	
KR 2004008096	Α	20040128	200435	E	
BR 200302995	Α	20040908	200462	E	
EP 1382271	В1	20061011	200668	E	
DE 60308956	E	20061123	200680	E	
KR 542067	В1	20060111	200682	E	
ES 2272917	Т3	20070501	200731	E	
JP 3927932	B2	20070613	200740	E	
DE 60308956	T2	20070830	200758	E	
CN 101254045	Α	20080903	200864	E	

Local Applications (no., kind, date): EP 2003291547 A 20030624; US 2002398565 P 20020726; US 2002398570 P 20020726; US 2003619612 A 20030716; FR 20029034 A 20020717; FR 20029035 A 20020717; JP 2003275559 A 20030716; CN 2003147670 A 20030716; KR 200348752 A 20030716; BR 20032995 A 20030714; EP 2003291547 A 20030624; DE 60308956 A 20030624; EP 2003291547 A 20030624; KR 200348752 A 20030716; EP 2003291547 A 20030624; JP 2003275559 A 20030716; DE 60308956 A 20030624; EP 2003291547 A 20030624; CN 200810081764 A 20030716 Priority Applications (no., kind, date): FR 20029034 A 20020717; FR 20029035 A 20020717; EP 2003291547 A 20030624

## Alerting Abstract EP A1

NOVELTY - The **applicator** (14), designed to be **fitted** to a **container** (12) holding a hair care product, has an arrangement of teeth in a row comprising **end** (22) and intermediate (16) teeth. The latter are hollow, having **inner** channels leading to lateral outlets (20) adjacent to their tips (18). The outlets are connected to the tips by grooves (26) in the tooth sides. The **applicator** is moulded in one piece from a polymer material and is shaped to prevent any escape of the applied product beyond the **end** teeth (22). When not in use it is covered by a matching **cap**.

USE - Applicator for hair care product.

ADVANTAGE - The **applicator** is easy to manufacture and prevents excessive flow of the product. DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of the **applicator**.

- 12 Product container
- 14 Applicator
- 16 Intermediate teeth
- 18 Tooth tip
- 20 Lateral outlet
- 26 Groove

5/25/9 (Item 9 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0011065958 *Drawing available*WPI Acc no: 2002-000954/200201

XRAM Acc no: C2002-000481 XRPX Acc No: N2002-000700

Air intake plug and valve for cap of fluid product container and dispenser, especially for cosmetic substances, comprises elastically deformable part in form of skirt folded inside out after inserting plug through hole

Patent Assignee: DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: DE L V; DE LAFORCADE V; DERAFORCARD V

Patent Family ( 16 patents, 32 countries )					
Patent Number	Kind	Date	Update	Type	
EP 1138393	A1	20011004	200201	В	
CA 2342086	A1	20010927	200201	E	
FR 2806706	A1	20010928	200201	E	
BR 200101340	Α	20011204	200203	E	
JP 2001315827	Α	20011113	200207	E	
US 20020005417	A1	20020117	200212	E	
CN 1319540	Α	20011031	200215	E	
US 6669060	B2	20031230	200402	E	
MX 2001003061	A1	20040701	200545	E	
CA 2342086	С	20051018	200570	E	
CN 1176832	С	20041124	200617	E	
MX 228762	В	20050628	200627	E	
JP 3886732	B2	20070228	200718	Ε	
EP 1138393	В1	20081231	200904	E	
DE 60137161	E	20090212	200912	E	
ES 2319729	ТЗ	20090512	200941	E	

Local Applications (no., kind, date): EP 2001400599 A 20010307; CA 2342086 A 20010322; FR 20003848 A 20000327; BR 20011340 A 20010326; JP 200191485 A 20010327; US 2001817276 A 20010327; CN 2001112310 A 20010326; US 2001817276 A 20010327; MX 20013061 A 20010323; CA 2342086 A 20010322; CN 2001112310 A 20010326; MX 20013061 A 20010323; JP 200191485 A 20010327; EP 2001400599 A 20010307; DE 60137161 A 20010307; EP 2001400599 A 20010307

Priority Applications (no., kind, date): FR 20003848 A 20000327; EP 2001400599 A 20010307

#### Alerting Abstract EP A1

NOVELTY - Plug, designed to **fit** into an air intake aperture in a **container cap**, is partly elastically deformable and incorporates opening/closing member which **seals** against seating surface on the **inside** of **cap** and opens when given low pressure level is reached to allow air to pass. The elastically deformable part of the plug is in the form of a skirt made in one piece with plug and folded **inside** out after inserting plug through hole.

DESCRIPTION - The plug (10), designed to **fit** into an air intake aperture in a **container cap** (201), is at least partly elastically deformable and incorporates an opening/closing member (15) which **seals** against a seating surface (216) on the **inside** of the **cap** and opens when a given low pressure level is reached **inside** the **container** to allow air to pass through a channel (13) between the hole and plug. The elastically deformable part of the plug is in the form of a skirt made in one piece with the plug and folded **inside** out after inserting the plug through the hole.

USE - Limiting air flow into **container** as contents are used; especially for **container** of cosmetic substance for hair care, body hygiene, make-up or perfume.

ADVANTAGE - Improved air intake **seal**, whole allowing in sufficient air to permit contents to be dispensed.

DESCRIPTION OF DRAWINGS - The drawing shows a cross-section of the air intake plug in side view.

10 Plug13 Air intake channel15 Opening/closing member201 Cap216 Seating surface

5/25/10 (Item 10 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0010895735 *Drawing available*WPI Acc no: 2001-516262/200157
XRPX Acc No: N2001-382478

Applicator for hair dye mousse comprises distributor head fitted on to bottle, comb mounted on this whose teeth have passages for mousse along their length and outlets near tip, screen between comb and bottle retaining mousse

Patent Assignee: DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: DELV; DELAFORCADEV

Patent Family ( 9 patents, 32 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 1127513	A1	20010829	200157	В	
FR 2805442	A1	20010831	200159	E	
US 20010018920	A1	20010906	200159	E	
CA 2338966	A1	20010825	200162	E	
CN 1309939	Α	20010829	200176	E	
BR 200100580	Α	20011204	200203	E	
JP 2001309814	Α	20011106	200206	E	
MX 2001001689	A1	20020401	200363	E	
US 6637440	B2	20031028	200372	E	

Local Applications (no., kind, date): EP 2001400037 A 20010109; FR 20002421 A 20000225; US 2001791744 A 20010226; CA 2338966 A 20010223; CN 2001116284 A 20010226; BR 2001580 A 20010209; JP 200150962 A 20010226; MX 20011689 A 20010214; US 2001791744 A 20010226 Priority Applications (no., kind, date): FR 20002421 A 20000225

# Alerting Abstract EP A1

NOVELTY - The **applicator** for hair dye mousse comprises a distributor head (10) **fit**ted on to the **bottle** (2). A **comb** (21) is mounted on this whose teeth have passages (30) for mousse along their length and outlets (32) near the tip. A screen (42) is **fit**ted between the **comb** and the **bottle** which retains the mousse so that it is applied uniformly to the hair.

USE - Applicator for hair dye mousse.

ADVANTAGE - Staining of the scalp is prevented.

DESCRIPTION OF DRAWINGS - The drawing shows a cross-section of the applicator.

2Bottle

10Distributor head

21**Comb** 

30Passage for mousse

32Outlet

42Screen

5/25/11 (Item 11 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009659920 *Drawing available*WPI Acc no: 1999-613125/199953
XRPX Acc No: N1999-452015

Dispenser for a liquid hair treatment product

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Famil	y (1 p	atents, 1 c	ountries	)
Patent Number	Kind	Date	Update	Type
FR 2777867	A1	19991029	199953	В

Local Applications (no., kind, date): FR 19985099 A 19980423 Priority Applications (no., kind, date): FR 19985099 A 19980423

#### Alerting Abstract FR A1

NOVELTY - The **dispenser** has a dosing cavity at the **top** of the **container**, with plunger **tube** which transports the liquid into the dosing cavity when the **container** walls are pressed, and which returns any excess liquid, above the specified dose, to be returned back to the **container**.

DESCRIPTION - The **dispenser** (1) includes a **container** (2) with deformable walls (4,5) and a dosage cavity (14) on **top** of the **container** (2). A plunger **tube** (23) has an **end** (32) near to the base of the **container** (2) and its other **end** (22) in communication with the dosage cavity (14), via a passage (28,29) **end**ing at the upper **edge** (30) of the cavity (14). In response to pressure on the deformable walls (4,5), the plunger **tube** (23) is designed to transport the liquid product into the cavity (14), and when the pressure ceases to suck into the **container** (2) any excess product above the upper **edge** (30) of the cavity (14). The **dispenser** (1) also includes an **applicator nozzle** (35), in communication with the cavity (14), which has an output orifice (41), which permits localized application of the product. The **nozzle** (35) forms above the upper **edge** (30) a volume at least equal to 20 percent of the volume of the cavity (14).

USE - For dispensing liquid hair treatment products.

ADVANTAGE - Designed to dispense the correct amount of the product. The risk of inadvertent spillage of the product during refilling of the dose is **reduc**ed substantially. Allows the localized application of the dose.

DESCRIPTION OF DRAWINGS - The drawing shows one form of the dispenser

1 dispenser

2 container

4,5 deformable walls of container

14 dosage cavity

22,32 ends of plunger tube

23 plunger tube

30 upper edge of cavity

35 nozzle

5/25/12 (Item 12 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009582088 *Drawing available*WPI Acc no: 1999-530008/199945
XRPX Acc No: N1999-392825

Dispensing and application head for capillary product such as foam or gel

Patent Family ( 11 patents, 28 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 945368	A1	19990929	199945	В	
FR 2776629	A1	19991001	199948	E	
JP 11314690	Α	19991116	200005	E	
US 6000405	Α	19991214	200005	E	
CA 2264256	A1	19990924	200008	E	
JP 3207179	B2	20010910	200155	E	
CA 2264256	С	20030819	200357	E	
EP 945368	B1	20070117	200706	E	
DE 69934836	E	20070308	200726	E	
ES 2279607	T3	20070816	200758	E	
DE 69934836	T2	20071018	200770	E	

Local Applications (no., kind, date): EP 1999400502 A 19990302; FR 19983600 A 19980324; JP 199978545 A 19990323; US 1999274381 A 19990323; CA 2264256 A 19990323; JP 199978545 A 19990323; CA 2264256 A 19990323; EP 1999400502 A 19990302; DE 69934836 A 19990302; EP 1999400502 A 19990302; DE 69934836 A 19990302; EP 1999400502 A 19990302

Priority Applications (no., kind, date): FR 19983600 A 19980324; EP 1999400502 A 19990302

# Alerting Abstract EP A1

NOVELTY - The dispensing and application head for a **cap**illary product comprises a body (11) which is mounted on a reservoir (2) **fit**ted with a pump or valve.

DESCRIPTION - A part (22) movable relative to the body has an activating surface (21) which on being pressed pivots around a pivoting axis (23) and causes activation of the pump. This movable part also includes an **applicator** (35) which is put into communication with the reservoir du**ring** pump activation to receive a product dose to apply on the surface. The body has s**top**s (28,29) for preventing any movement of the movable part other than around its pivoting axis.

USE - Dispensing and application head for capillary product such as foam or gel.

DESCRIPTION OF DRAWINGS - The drawing shows perspective view of the foam or gel dispenser.

2 Reservoir

21 Activating surface

22 Movable part

23 Pivoting axis

28,29 Stops

35 Applicator

5/25/13 (Item 13 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009079297

WPI Acc no: 1998-559156/199848 Related WPI Acc No: 1995-195370 XRAM Acc no: C1998-167457 XRPX Acc No: N1998-436039

Applicator for liquid cosmetic or pharmaceutical skin product - has domed porous dispenser made from fritted ceramic or plastic particles

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V; DUBOIS L; GUILLAUMAT-LOUVARD F

Patent Family ( 4 patents, 5 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 875168	A2	19981104	199848	В	
EP 875168	B1	20030625	200349	E	
DE 69432872	E	20030731	200357	E	
ES 2196478	ТЗ	20031216	200413	E	

Local Applications (no., kind, date): EP 1994402607 A 19941117; EP 1998202441 A 19941117; EP 1994202441 A 19941117; DE 69432872 A 19941117; EP 1998202441 A 19941117; EP 1998202441 A 19941117

Priority Applications (no., kind, date): FR 199314235 A 19931129; EP 1994202441 A 19941117

## Alerting Abstract EP A2

The applicator comprises a pressurised container (1) for a liquid to be applied and a porous domed dispenser (9) for applying the liquid directly to the skin. The domed dispenser fits into a holder (8) attached to the top of the can, and the porous material from which it is made is non-deformable and fritted. The fritted material of the dome can be a ceramic, or can be made by compressing particles of a plastic material such as high- or low-density polyethylene, polypropylene or vinyl fluoride, with pores of 10-500 mum, preferably 10-200 mum.

ADVANTAGE - The applicator has a wide range of applications and is of low cost.

5/25/14 (Item 14 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008804857 *Drawing available*WPI Acc no: 1998-350193/199831
XRPX Acc No: N1998-273394

Dispenser and applicator e.g. for spray-on skin products - has actuator controlling opening of dispensing valve made in one piece with cover housing.

Patent Assignee: L'OREAL SA (OREA)
Inventor: **DE LAFORCADE V**; LACOUT F

Patent Family ( 2 patents, 24 countries )				
Patent Number	Kind	Date	Update	Type
EP 852209	A1	19980708	199831	В
FR 2758128	A1	19980710	199834	E

Local Applications (no., kind, date): EP 1997403009 A 19971211; FR 199779 A 19970107 Priority Applications (no., kind, date): FR 199779 A 19970107

#### Alerting Abstract EP A1

A dispenser/applicator for a liquid such as a cosmetic or medicinal skin product held under pressure in a container (2), released by lateral movement of a valve stem (5), consists of a cover housing (6) with a support (8, 9) for the applicator (10) connected to the valve stem, and an actuator (16, 20, 22, 30) which controls the opening of the valve and the delivery of the liquid to the applicator. The actuator is made in one piece with the cover housing, and its components pivot about at least two axes (17, 21) lying perpendicular to the axis of the container, so that the valve is opened by a pressure applied on a level with its stem. The applicator support is connected to the valve stem by a flexible coupling which keeps the applicator in one position while the valve stem is being moved. The cover housing is made from a rigid or semi-rigid thermoplastic such as polypropylene, polyethylene or other polyolefin.

ADVANTAGE - Simple in design and low in cost, with small number of components and suitable for

manufacture by multi-material injection.

5/25/15 (Item 15 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008466975 *Drawing available*WPI Acc no: 1997-479924/199744
XRPX Acc No: N1997-400308

Fluid or solid material dispenser - has container with outlet at valve rod end and applicator dome supported in holder by flexible tabs connected to flexible band on valve rod ferrule

Patent Assignee: L'OREAL CO (OREA); L'OREAL SA (OREA)

Inventor: DELV; DELAFORCADEV

Patent Family ( 14 patents, 9 countries )					
Patent Number	Kind	Date	Update	Туре	
WO 1997034512	A1	19970925	199744	В	
EP 797940	A1	19971001	199744	E	
FR 2746270	A1	19970926	199746	E	
JP 10507399	W	19980721	199839	E	
CN 1193262	Α	19980916	199905	E	
EP 797940	В1	19990217	199912	E	
DE 69700116	E	19990325	199918	E	
BR 199707151	Α	19990406	199920	E	
ES 2130000	Т3	19990616	199930	E	
US 5967685	Α	19991019	199950	E	
MX 199708991	A1	19980301	200002	E	
JP 2000085825	Α	20000328	200026	E	
JP 3105927	B2	20001106	200059	E	
MX 204763	В	20011017	200246	E	

Local Applications (no., kind, date): WO 1997FR484 A 19970319; EP 1997400616 A 19970319; FR 19963541 A 19960321; JP 1997533205 A 19970319; WO 1997FR484 A 19970319; CN 1997190537 A 19970319; EP 1997400616 A 19970319; DE 69700116 A 19970319; EP 1997400616 A 19970319; BR 19977151 A 19970319; WO 1997FR484 A 19970319; US 1998952519 A 19980116; MX 19978991 A 19971121; JP 1997533205 A 19970319; JP 1999269463 A 19970319; JP 1997533205 A 19970319; WO 1997FR484 A 19971121

Priority Applications (no., kind, date): FR 19963541 A 19960321; WO 1997FR484 A 19970319

## Alerting Abstract WO A1

The dispensing assembly (1) comprises a **container** (42) with a material outlet (52) at the **end** of the valve rod (50). An **applicator** dome (32), which communicates with the **container**, has an outer **applicator** surface and is supported by a holder (2) on the **container** outlet. The holder has flexible tabs (26a,30b) which rigidly hold the **dispenser** on a ferrule (16) on the valve rod outlet. The ferrule is deformable in a direction perp**end**icular to the axis (X) and is connected to the upper **end** of each tab by a flexible band (64a,64b). When the **applicator** dome is placed in the support **annular** groove the dome **fasten**ing surface (40) is supported on **protuber**ances (30a,30b) and pushes the tabs into the X axis direction.

ADVANTAGE - The **applicator** dome is prevented from separating from its support on the **container** outlet.

## ADVANTAGE - . D21

5/25/16 (Item 16 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008455632 *Drawing available*WPI Acc no: 1997-283037/199726
XRPX Acc No: N1997-234358

Fluid or solid product applicator, for cosmetics, e.g. deodorant, insecticide, paint, etc. - has product container with applicator whose surface has zone in communication with the container outlet, applicator having piece limiting radial diffusion of product in applicator

Patent Assignee: L'OREAL SA (OREA)

Inventor: D	E	LAFO	RCA	DE	٧
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Patent Family ( 9 patents, 6 countries )						
Patent Number	Kind	Date	Update	Туре		
EP 775641	A1	19970528	199726	В		
FR 2741600	A1	19970530	199729	E		
CA 2191122	Α	19970524	199738	E		
EP 775641	B1	19990310	199914	E		
US 5876139	Α	19990302	199916	E		
DE 69601691	E	19990415	199921	E		
ES 2130769	ТЗ	19990701	199933	E		
CA 2191122	С	20000425	200036	E		
US 6082919	Α	20000704	200036	E		

Local Applications (no., kind, date): EP 1996402278 A 19961025; FR 199513939 A 19951123; CA 2191122 A 19961122; EP 1996402278 A 19961025; US 1996748796 A 19961114; DE 69601691 A 19961025; EP 1996402278 A 19961025; EP 1996402278 A 19961025; CA 2191122 A 19961122; US 1996748796 A 19961114; US 1998159563 A 19980924

Priority Applications (no., kind, date): FR 199513939 A 19951123

## Alerting Abstract EP A1

The product applicator comprises a container (104), enclosing the product, having a product outlet. An applicator (114) having an applicator surface (118) and a peripheral edge (122) has a zone (126) in communication with the product container outlet. The applicator comprises a piece (127), distinct from the applicator, which limits radial diffusion of the product in the applicator. This piece is located between the zone communicating with the container outlet and the peripheral edge of the applicator. The piece limiting radial diffusion comprises a wall (128) placed around the zone in communication with the product container. This wall is extended radially relative to the container axis (X) in its upper part by a top (140) which extends towards the applicator peripheral edge.

ADVANTAGE - The **applicator** assembly avoids an excessive supply of the product onto the surface of the **applicator**.

5/25/17 (Item 17 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008449203 Drawing available

WPI Acc no: 1997-168131/199716 XRPX Acc No: N1997-138255

Applicator for liquid or solid product, such as body deodorant, pharmaceuticals, or cosmetics - comprises deodorant container in communication with applicator whose external surface is covered by cap having two orifices which cause air circulation inside cap

Patent Assignee: L'OREAL SA (OREA) Inventor: **DE LAFORCADE V** 

Patent Family ( 11 patents, 8 countries )					
Patent Number	Kind	Date	Update	Туре	
FR 2737707	A1	19970214	199716	В	
EP 763485	A1	19970319	199716	E	
CA 2182902	Α	19970209	199724	E	
EP 763485	В1	19970806	199736	E	
DE 69600049	E	19970911	199742	E	
ES 2108591	ТЗ	19971216	199806	E	
MX 199603112	A1	19970601	199825	E	
BR 199604042	Α	19980609	199831	E	
CA 2182902	C	19990601	199940	E	
US 6056467	Α	20000502	200029	E	
MX 193699	В	19991013	200101	E	

Local Applications (no., kind, date): FR 19959620 A 19950808; EP 1996401593 A 19960717; CA 2182902 A 19960807; EP 1996401593 A 19960717; DE 69600049 A 19960717; EP 1996401593 A 19960717; EP 1996401593 A 19960717; EP 1996401593 A 19960717; MX 19963112 A 19960731; BR 19964042 A 19960731; CA 2182902 A 19960807; US 1996692766 A 19960806; MX 19963112 A 19960731 Priority Applications (no., kind, date): FR 19959620 A 19950808

#### Alerting Abstract FR A1

The **applicator** comprises a **container** (4) enclosing the product to be dispensed having an axis of symmetry (X). An **applicator** (12) in communication with the **container** has an external **applicator** surface (16) which is covered by a **cap** (24).

The **cap** has **two** orifices (36,38) which cause an air circulation in its internal volume. These orifices are located at **different** heights along the axis of symmetry in the **cap** upper surface (28) and a side wall (30). The cover can have a shrink **ring** mounted on the **container** to ensure holding it on the **container**.

ADVANTAGE - The applicator assembly avoids the accumulation of the deodorant between the cap and deodorant container.

5/25/18 (Item 18 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008448556 *Drawing available*WPI Acc no: 1997-157829/199715
XRPX Acc No: N1997-130332

Dispenser and container for pressurised product - comprises control rod and porous applicator, fixed on control rod, with external surface coming into contact with user's skin, product diffusing inside applicator along cone

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Family ( 11 patents, 8 countries )					
Patent Number	Kind	Date	Update	Туре	
FR 2737472	A1	19970207	199715	В	
EP 761564	A1	19970312	199715	E	
CA 2182615	Α	19970203	199723	E	
BR 199603258	Α	19980428	199823	E	
US 5788389	Α	19980804	199838	E	
EP 761564	B1	19990714	199932	E	
DE 69603234	E	19990819	199939	E	
ES 2133909	ТЗ	19990916	199946	E	
MX 199603089	A1	19980401	200004	E	
CA 2182615	С	20011030	200203	E	
MX 198661	В	20000919	200211	E	

Local Applications (no., kind, date): FR 19959421 A 19950802; EP 1996401714 A 19960801; CA 2182615 A 19960801; BR 19963258 A 19960802; US 1996684853 A 19960725; EP 1996401714 A 19960801; DE 69603234 A 19960801; EP 1996401714 A 19960801; EP 1996401714 A 19960801; MX 19963089 A 19960730; CA 2182615 A 19960801; MX 19963089 A 19960730 Priority Applications (no., kind, date): FR 19959421 A 19950802

## Alerting Abstract FR A1

The pressurised product is stored in a **container** and the **dispenser** comprises a control rod (7) and a porous **applicator** (9) in sintered material. The **applicator** has an external application surface (10) which comes into contact with the user's skin.

The **applicator** has a blind drilling (8) for **fixing** it directly onto the control rod. The depth of this drilling is chosen so that injection of the product in the **applicator** occurs with an axial diffusion directed to the external application surface. The **applicator** is arranged so that the product diffuses in the **applicator** along a diffusion cone (D) inscribed in a volume delimited by a cone (14) on the perimeter of the external application surface. The cone **top** is located on the axis (X) of the control rod near its upper **end** section.

ADVANTAGE - The pressurised product **applicator** has a simplified construction and is comfortable to use.

5/25/19 (Item 19 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008445546 *Drawing available*WPI Acc no: 1997-101759/199710
XRPX Acc No: N1997-084183

Distributor for pressurised product in container - has cap containing valve and control rod engaged by tubular ferrule in cap to form passage for product, piece around ferrule preventing incursion of control rod in annual space bordering ferrule

Patent Family ( 7 patents, 6 countries )						
Patent Number	Kind	Date	Update	Туре		
EP 755880	A1	19970129	199710	В		
FR 2736624	A1	19970117	199712	E		
JP 9030576	Α	19970204	199715	E		
EP 755880	B1	19990310	199914	E		
DE 69601674	E	19990415	199921	E		
US 5899623	Α	19990504	199925	E		
ES 2130764	ТЗ	19990701	199933	E		

Local Applications (no., kind, date): EP 1996401553 A 19960712; FR 19958521 A 19950713; JP 1996184737 A 19960715; EP 1996401553 A 19960712; DE 69601674 A 19960712; EP 1996401553 A 19960712; US 1996672712 A 19960628; EP 1996401553 A 19960712 Priority Applications (no., kind, date): FR 19958521 A 19950713

## Alerting Abstract EP A1

The distributor for a product maintained under pressure in a **container** comprises a **cap** (3) on the **container** having a valve with a control rod (21). The **cap** has in its **lower** part a tubular skirt (4) having at its base an **annular** bulge (5) projecting radially inwards which is fixed by clipping in an **annular** groove (6) in the upper part. The **cap** has in its upper part a movable **applicator** (7) flexibly connected to the skirt by a **ring** (8) with several flexible tabs.

The **applicator** is protected by a **cap** (9) which is held by friction on the skirt. This **cap** has an air vent (12) in its upper part. A tubular ferrule in the **cap** engages with the control rod and forms with it a passage for the product. A piece (28) outside and connected to the ferrule prevents incursion of the control rod into the **annular** space (29) externally bordering the ferrule so as to oppose straining of the **cap** when the control rod is inclined.

ADVANTAGE - The distributor has a **cap**, containing a control valve, which can be easily **fit**ted by an inexperienced user.

5/25/20 (Item 20 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0007907545 *Drawing available*WPI Acc no: 1996-414373/199642
XRPX Acc No: N1996-348829

Liquid spray container - consists of liquid and propellant gas compartments separated by piston with toroidal joint, internal wall having regularly spaced scratches, obtained by rotating metal hair brush, which ensure sealing between piston and wall

Patent Family ( 11 patents, 20 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 732276	A1	19960918	199642	В	
FR 2731683	A1	19960920	199644	E	
JP 8257122	Α	19961008	199650	E	
CA 2171674	Α	19960916	199703	E	
EP 732276	B1	19970122	199709	E	
DE 69600002	E	19970306	199715	E	
ES 2100103	ТЗ	19970601	199729	E	
US 5775549	Α	19980707	199834	E	
US 5971228	Α	19991026	199952	E	
CA 2171674	С	19991207	200017	E	
MX 194741	В	20000104	200115	E	

Local Applications (no., kind, date): EP 1996400351 A 19960220; FR 19953012 A 19950315; JP 199658116 A 19960314; CA 2171674 A 19960313; EP 1996400351 A 19960220; DE 69600002 A 19960220; EP 1996400351 A 19960220; EP 1996400351 A 19960220; US 1996596925 A 19960313; US 1996596925 A 19960313; US 19984065 A 19980108; CA 2171674 A 19960313; MX 1996969 A 19960314

Priority Applications (no., kind, date): FR 19953012 A 19950315

# Alerting Abstract EP A1

The cylindrical liquid spray **container** (1) has an aluminium body (2) and a plastic **cap** (3). The body consists of a compartment (4) containing liquid (5) and a separate compartment (6) containing propellant gas (7). A piston (8) with a toroidal joint (9) contained **within** the internal wall (17) separates the **two** compartments. The **cap** protects a spray assembly constituted by a valve (10) on which is inserted a control rod (11).

The rod has a shoulder (12) on which is supported a peg (13) with an orifice and a channel (14) discharging into a liquid spray **nozzle** (15). The **cap** has a push button (16) for operating the spray. On the internal wall are regularly spaced scratches (18) ext**end**ing to a depth of 30mum into the wall. These scratches are obtained by **brush**ing the wall with a rotating metal hair **brush**. The scratches ensure **sealing** between the piston and the wall.

The propellant gas and liquid are **sealed** from each other by **means** of scratches in the **container** internal wall avoiding the use of varnish coatings normally used for this purpose.

5/25/21 (Item 21 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0007391013 *Drawing available*WPI Acc no: 1995-360015/199547
XRPX Acc No: N1995-267625

Dispenser/ applicator for product in fluid or solid form - has moulded plastics fixed and moving components linked by flexible tongues to permit relative movement between applicator head and container

Patent Family ( 7 patents, 6 countries )						
Patent Number	Kind	Date	Update	Туре		
EP 678458	A1	19951025	199547	В		
FR 2718720	A1	19951020	199547	E		
JP 8000740	Α	19960109	199610	E		
EP 678458	B1	19970604	199727	E		
DE 69500328	E	19970710	199733	E		
ES 2105847	ТЗ	19971016	199748	E		
US 6004056	Α	19991221	200006	E		

Local Applications (no., kind, date): EP 1995400736 A 19950403; FR 19944601 A 19940418; JP 199591176 A 19950417; EP 1995400736 A 19950403; DE 69500328 A 19950403; EP 1995400736 A 19950403; EP 1995400736 A 19950403; US 1995423858 A 19950418; US 1997962775 A 19971103 Priority Applications (no., kind, date): FR 19944601 A 19940418

## Alerting Abstract EP A1

The **dispenser/applicator** has a fixed component (107) attached to the **container** of the product and a moving component (110) equipped with the **applicator** head. The **two** components are connected by flexible tongues (111) which allow the moving component to move axially relative to the fixed one, with the tongues lying in a plane perpendicular to the lengthwise axis and each connect at one **end** to the fixed component and at the other to the moving one.

The fixed and moving components and the tongues, which are between **two** and twelve in number, are moulded in one piece from a thermoplastic material. The **dispenser** head has a porous dome for the application of the product, which is held in a pressurised **container** with a valve actuated by the moving component.

USE/ADVANTAGE - Allows for gentle application of a cosmetic product such as an underarm deodorant.

5/25/22 (Item 22 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0007367657 *Drawing available*WPI Acc no: 1995-195370/199526
Related WPI Acc No: 1998-559156
XRPX Acc No: N1995-153374

Liquid applicator e.g. for deodorant - has applicator dome of porous plastics attached to top of pressurised container by distribution head with flexible section

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V; DUBOIS L; GUILLAUMAT-LOUVARD F

Patent Family ( 9 patents, 6 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 655208	A1	19950531	199526	В	
FR 2713060	A1	19950609	199528	E	
CA 2136585	Α	19950530	199535	E	
US 5567073	Α	19961022	199648	E	
CA 2136585	С	19990202	199916	E	
EP 655208	B1	19990714	199932	E	
DE 69419481	E	19990819	199939	E	
ES 2133510	Т3	19990916	199946	E	
CA 2218740	С	20000411	200035	E	

Local Applications (no., kind, date): EP 1994402607 A 19941117; FR 199314235 A 19931129; CA 2136585 A 19941124; US 1994348983 A 19941128; CA 2136585 A 19941124; EP 1994402607 A 19941117; EP 1998202441 A 19941117; DE 69419481 A 19941117; EP 1994402607 A 19941117; EP 1994402607 A 19941117; CA 2136585 A 19941124; CA 2218740 A 19941124 Priority Applications (no., kind, date): FR 199314235 A 19931129

## Alerting Abstract EP A1

The applicator consists of a container (1) and distribution dome (9), connected to the container by a distribution head (7,8,10) and made from a porous material. The container is a pressurised reservoir with a valve (4), while the distribution dome is mounted on a support (8) connected to the valve by a bush (13) with a channel (14). When pressure is applied to the dome, the valve is opened and the liquid is discharged through the channel into the porous material for application. The distribution head is connected to the container by a rigid skirt (7) and a supple element (10) which flexes when pressure is applied to the dome. The distribution head is made in one piece from moulded plastics.

ADVANTAGE - Allows aerosol product to be applied precisely and can be manufactured at low cost.

5/25/23 (Item 23 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0007344313

WPI Acc no: 1995-024725/199504 XRAM Acc no: C1995-011322 XRPX Acc No: N1995-019162

Dispenser for low-viscosity liquid - has inner piston with elastic seal to keep liquid from

contact with air

Patent Assignee: L'OREAL SA (OREA) Inventor: **DE LAFORCADE V**; LACOUT F

Patent Family ( 7 patents, 17 countries )						
Patent Number	Kind	Date	Update	Туре		
FR 2705951	A1	19941209	199504	В		
WO 1994029190	A1	19941222	199505	E		
EP 652842	A1	19950517	199524	E		
US 5577641	Α	19961126	199702	E		
EP 652842	B1	19970305	199714	E		
DE 69401895	E	19970410	199720	E		
ES 2099614	ТЗ	19970516	199727	E		

Local Applications (no., kind, date): FR 19936704 A 19930604; WO 1994FR639 A 19940601; EP 1994917700 A 19940601; WO 1994FR639 A 19940601; WO 1994FR639 A 19940601; US 1995374718 A 19950126; EP 1994917700 A 19940601; WO 1994FR639 A 19940601; DE 69401895 A 19940601; EP 1994917700 A 19940601; WO 1994FR639 A 19940601; EP 1994917700 A 19940601 Priority Applications (no., kind, date): FR 19936704 A 19930604

# Alerting Abstract FR A1

The **dispenser** consists of a **container** (2) for the liquid and an **applicator** head. The **container** is cylindrical in shape and has a piston (16) **inside** it made from a rigid body (10) with a **seal** (17) of an elastic material. The **seal** is made by over-moulding it onto the body, and both the **seal** and the body are made from chemically-compatible materials, e.g. polypropylene-EPDM; polypropylene-polyethylene; polypropylene-styrene; polyamide-polyethylene; polyester-EPDM or polystyrene-polyethylene. The **applicator** head contains a pump (12) with no air intake and the **lower** part of the **container** body has a hole (4) in it to draw in air as the piston moves up.

ADVANTAGE - Allows product to be applied without previous contact with ambient air.

5/25/24 (Item 24 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0006195050 Drawing available
WPI Acc no: 1992-114200/199214
XRAM Acc no: C1992-053204
XRPX Acc No: N1992-085432

Liq. or paste container automatically closing dispenser - has moulded EPDM dome membrane with moulded slot closed under deforming pressure of cap until contents are pressurised by squeezing

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V; DELAFORCAD V

Patent Family ( 9 patents, 16 countries )					
Patent Number	Kind	Date	Update	Туре	
WO 1992004244	Α	19920319	199214	В	
FR 2666308	Α	19920306	199218	E	
EP 497961	A1	19920812	199233	E	
JP 5502209	W	19930422	199321	E	
US 5234138	Α	19930810	199333	E	
EP 497961	B1	19941228	199505	E	
DE 69106337	E	19950209	199511	E	
ES 2066469	ТЗ	19950301	199515	E	
CA 2067760	С	20010717	200144	E	

Local Applications (no., kind, date): WO 1991FR692 A 19910827; FR 199010764 A 19900829; EP 1991915932 A 19910827; WO 1991FR692 A 19910827; JP 1991514730 A 19910827; WO 1991FR692 A 19910827; US 1992847089 A 19920413; EP 1991915932 A 19910827; WO 1991FR692 A 19910827; DE 69106337 A 19910827; EP 1991915932 A 19910827; WO 1991FR692 A 19910827; EP 1991915932 A 19910827; CA 2067760 A 19910827; WO 1991FR692 A 19910827

Priority Applications (no., kind, date): FR 199010764 A 19900829

#### Alerting Abstract WO A

An automatically closing dispensing device for a **container** of liquid or paste comprises a membrane (M) of outwardly convex dome form (5), covering the **container** outlet (3), and having a slot (8) at the **top** of the dome. A rigid **cap** (9) is **fit**ted to the **container** and (3) to partially cover the dome (5) in the region surrounding the slot (8), which remains uncovered. Projecting bearing means (A) are provided on either or both the membrane (M) external surface or **cap** (9) internal surface such that setting in place the **cap** (9) on the **container** (2) deforms the dome (5) of the membrane and a **sealing** application of the **edges** (8a, 8b) of the slot (8) against each other occurs. The slot (8) is obtd. by moulding with the membrane (M) so that the **edges** (8a, 8b) will **seal** due to the deformation pressure of the **cap** (9). When pressure is applied to the **inner** surface of the dome (5) by the product due to squeezing the **tube**, the slot (8) opens by outward deformation of the membrane (M).

USE/ADVANTAGE - Self-closing **applicator** for one bonded use with moulded membrane slot **reducing** prodn. cost by eliminating supplementary slotting operations.

5/25/25 (Item 25 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0005720638 *Drawing available*WPI Acc no: 1991-334465/199146
XRPX Acc No: N1991-256299

Applicator with ball for liquid or paste product - ball being held in opening by rib projecting inwards and covered by stopper joined to receptacle

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE L V; DE LAFORCADE V; DELAFORCAD V; PEUSCET J

Patent Family ( 11 patents, 8 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 456532	Α	19911113	199146	В	
FR 2661846	Α	19911115	199205	E	
CA 2040360	Α	19911111	199206	E	
US 5180242	Α	19930119	199306	E	
EP 456532	B1	19940713	199427	E	
DE 69102817	E	19940818	199432	E	
ES 2056596	ТЗ	19941001	199440	E	
CA 2040360	С	20010612	200136	E	
JP 3254587	B2	20020212	200213	E	
JP 2002172357	Α	20020618	200255	Е	
JP 3627181	B2	20050309	200518	E	

Local Applications (no., kind, date): EP 1991400939 A 19910408; FR 19905803 A 19900510; US 1991690264 A 19910424; EP 1991400939 A 19910408; DE 69102817 A 19910408; EP 1991400939 A 19910408; EP 1991400939 A 19910408; CA 2040360 A 19910412; JP 1991199772 A 19910510; JP 1991199772 A 19910510; JP 2001275081 A 20010911

Priority Applications (no., kind, date): FR 19905803 A 19900510

## Alerting Abstract EP A

The **applicator** has a tubular **receptacle** (2), with an open **end** (3), which contains the product (P). A ball (9) is held in the opening (4) in the base of the **receptacle** by a rib (7) which projects into the opening. A **stop**per (5) protects the ball and is joined to the **receptacle** by a breakable zone (8). The **stop**per and the **receptacle** are moulded in a single piece of plastics material. The **stop**per has an outer transversal bar (6) which is twisted to break off the **stop**per. After the **receptacle** has been filled the sides of the open **end** are fixed together.

USE - The applicator is for a liq. or paste cosmetic or pharmaceutical product. @(7pp Dwg.No.4/6)@

5/25/26 (Item 26 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0005159735 *Drawing available*WPI Acc no: 1990-149636/199020
XRPX Acc No: N1990-115978

Additive dispensing head esp. for foam container - comprises housing in two telescopic sections with ring of outlet holes at one end

Patent Assignee: L'OREAL SA (OREA)

Inventor: **DE LAFORCADE V**; DELAFORCAD V

Patent Family ( 7 patents, 11 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 368724	Α	19900516	199020	В	
FR 2638718	Α	19900511	199026	E	
CA 2002168	Α	19900509	199027	E	
US 5007563	Α	19910416	199118	E	
EP 368724	B1	19921230	199301	E	
DE 68904167	E	19930211	199307	E	
ES 2036831	ТЗ	19930601	199330	E	

Local Applications (no., kind, date): EP 1989403005 A 19891031; FR 198814644 A 19881109; US 1989432854 A 19891107; EP 1989403005 A 19891031; DE 68904167 A 19891031; EP 1989403005 A 19891031

Priority Applications (no., kind, date): FR 198814644 A 19881109

#### Alerting Abstract EP A

The dispensing head for an additive, e.g. for **attachment** to a **container** and adding a perfume or colouring substance to a foam material as it is ejected from the **container**, consists of a housing (1) with a central channel (5) for the foam to pass through, and a chamber (6) surrounding the channel in which the additive is contained.

The **dispenser** is formed by **two** telescopically-linked sections (7,14), the upper one having a **ring** of holes for the additive substance to pass through as it is dispensed to be added to the foam.

The chamber is additionally equipped with radial partitions (9).

ADVANTAGE - Quick and easy to use. @(8pp Dwg.No.4/4)@

5/25/27 (Item 27 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0004826107 *Drawing available*WPI Acc no: 1989-200926/198928

Dispenser and applicator for pasty materials - has barrel valve through disc shaped cap assembly operated by cover which protects roller applicator

Patent Assignee: L'OREAL SA (OREA)

Inventor: LAFORCADE V

Patent Famil	y ( 1 p	atents, 1 c	ountries	)
Patent Number	Kind	Date	Update	Туре
FR 2623476	А	19890526	198928	В

Local Applications (no., kind, date): FR 198716006 A 19871119 Priority Applications (no., kind, date): FR 198716006 A 19871119

# Alerting Abstract FR A

The **dispenser** has a reservoir (102) with a **cap** assembly (101) **fit**ted with a roller spreader (127) and a valve (109). The valve has an off-centre cross drilling (110) and it is rotated by moving an external protective cover (131) which is fixed to the valve **end** faces.

The cover has a saddle shape and can be placed in three separate positions. When on the left of the cover the drilling allows contents of the reservoir to pass on to the rollers for application by the user. In a central upper position, the supply of paste is cut-off and the rollers are covered, when on the right hand side, the valve is closed and the roller assembly may be removed for cleaning. The **top** half of the **cap** can be pivoted about a hinge (138) to allow access to the rollers.

USE/ADVANTAGE - The dispenser supplies potentially corrosive pastes directly to an applicator and

provides for cleaning the applicator rollers. For dispensing e.g. depilatory creams.

5/25/28 (Item 28 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0004457640 *Drawing available*WPI Acc no: 1988-199099/198829

Liquid product dispensing equipment - has actuator and application instrument folding against vessel when not in use

Patent Assignee: L'OREAL SA (OREA)

Inventor: **DE LAFORCADE V**; DELAFORCAD V

Patent Family ( 10 patents, 8 countries )				
Patent Number	Kind	Date	Update	Туре
DE 3744440	Α	19880714	198829	В
FR 2609003	Α	19880701	198833	E
GB 2202591	Α	19880928	198839	E
ES 2006252	Α	19890416	198942	E
US 4858792	Α	19890822	198942	E
CH 674195	Α	19900515	199024	E
GB 2202591	В	19900704	199027	E
CA 1309989	C	19921110	199251	E
BE 1004397	АЗ	19921117	199302	E
DE 3744440	C2	19950614	199528	E

Local Applications (no., kind, date): DE 3744440 A 19871229; FR 198618344 A 19861230; GB 198729118 A 19871214; ES 19873739 A 19871229; US 1987137728 A 19871224; CA 554336 A 19871215; BE 19871508 A 19871230; DE 3744440 A 19871229 Priority Applications (no., kind, date): FR 198618344 A 19861230

#### Alerting Abstract DE A

The liquid product-dispensing equipment (1) comprises a **vessel** (2) containing the product, and a discharge device with actuator (17) operated by the user. The actuator has a first drilling in line with the device in the working position and connected to a **second** one at right angles in turn leading to the passage in an oblong application instrument.

The instrument and actuator are joined together and form the movable part (8) of a discharge head (3), hinging (15) on the fixed part (7), which is secured to the **vessel**. In the working position the instrument is at right angles to the **vessel**, while in the rest position it folds parallel to it. ADVANTAGE - Compact when stored, while instrument cannot get lost.

5/5/29 (Item 1 from file: 347) DIALOG(R) File 347: JAPIO

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07082167 \* \* Image available\* \*

DEVICE FOR CONTAINING AND APPLYING HAIR CARE PRODUCTS

Pub. No.: 2001-309814 [JP 2001309814 A]

Published: November 06, 2001 (20011106)
Inventor: DE LAFORCADE VINCENT

Applicant: L'OREAL SA

**Application No.:** 2001-050962 [JP 200150962]

Filed: February 26, 2001 (20010226)

Priority: 00 200002421 [FR 20002421], FR (France), February 25, 2000 (20000225)

International Class: A45D-019/02; A45D-024/22; B05B-009/04; B65D-047/42; B65D-083/00

#### **ABSTRACT**

PROBLEM TO BE SOLVED: To solve a problem that hair coloring agents are liable to produce on a scalp stains undesirable to consumers when using an application device, and at the same time to enable a hair care product to be applied deeply into the hair.

SOLUTION: The device comprises a **container** 2, an **applicator** member 20 like **comb** teeth 21 configured to be moved to an axial direction to apply a hair care composition, and a dispensing head 10 configured to be coupled to the **container**. A duct 80 is formed in the tooth to be placed in flow communication with the **container** 2, to be extended along an axial length of the tooth, and to be opened through an orifice 32 in a direction transverse to an axis of the tooth. Besides, the dispensing head 10 is arranged a volume which is configured to be **capable** of holding the composition and having the hair pass through deeply between the **comb** teeth when the **applicator** member is moved along the hair with the **comb** teeth 21 of the **applicator** member 20, and is provided with a screen member 40 that defines the volume the orifice 32 is opened to provide outlet flow with respect thereto

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5/5/30 (Item 2 from file: 347)
DIALOG(R) File 347: JAPIO

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06373071 \* \* Image available\* \*

DISPENSING APPLICATION HEAD FOR PRODUCT SUCH AS HAIR CARE PRODUCT, AND CONTAINING UNIT PROVIDED WITH THE HEAD

Pub. No.: 11-314690 [JP 11314690 A] Published: November 16, 1999 (19991116) Inventor: DE LAFORCADE VINCENT

Applicant: L'OREAL SA

Application No.: 11-078545 [JP 9978545]

Filed: March 23, 1999 (19990323)

Priority: 9803600 [FR 3600], FR (France), March 24, 1998 (19980324) International Class: B65D-083/40; A45D-034/04; B65D-083/76

#### **ABSTRACT**

PROBLEM TO BE SOLVED: To provide a head for applying a product such as a hair care product, which is durable, whose cost is inexpensive, and which is designed so as not to suffer torsional moment to such a degree that the head may not cause troubles in application even in the case where it strikes against an obstacle during application.

SOLUTION: This dispensing application head includes a main body 11 fixedly mounted to a housing container 2 provided with a valve 41 and the like, has a movable portion 22 capable of moving relative to the main body and an operational face 21 disposed in such a manner that the movable portion 22 is rotated with a hinge shaft 23 for connecting the movable portion 22 to the main body 11 as a center to operate the valve and the like, and further includes an applicator 35 with which the movable portion 22 is caused to communicate with the housing container 2 during the operation of

the valve and the like so as to accept a predetermined quantity of a product to be applied to the surface of the **applicator**. In this case, the main body 11 is provided with abutment forming **means** 28, 29 for substantially preventing the movement of the movable portion 22 except the rotation centering around the hinge shaft 23.

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6/25/2 (Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0016598161 *Drawing available*WPI Acc no: 2007-313098/200731
XRPX Acc No: N2007-230247

Cosmetic product e.g. coloring product, applying unit for e.g. hair, has base having tapered portion extending until external border of external edge of opening so that passage of base extends partly inside volume delimited by portion

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Family ( 6 patents, 38 countries )					
Patent Number	Kind	Date	Update	Туре	
FR 2889920	A1	20070302	200731	В	
EP 1759609	A1	20070307	200731	E	
US 20070251537	A1	20071101	200774	E	
EP 1759609	B1	20090225	200916	E	
DE 602006005296	E	20090409	200926	E	
ES 2322094	ТЗ	20090616	200943	E	

Local Applications (no., kind, date): FR 200552587 A 20050829; EP 2006300842 A 20060801; US 2005714410 P 20050907; US 2006511408 A 20060829; EP 2006300842 A 20060801; DE 602006005296 A 20060801; EP 2006300842 A 20060801; EP 2006300842 A 20060801 Priority Applications (no., kind, date): FR 200552587 A 20050829

## Alerting Abstract FR A1

NOVELTY - The unit has a zone having a slotted outer **circumfer**ence, and a base having a passage (13) which permits a communication of a **container** (16) containing a product with a distribution opening (3) of the base. A set of notches (4) has an **end** integrated to the base and projects on an external **edge** (7) of the opening. The base has a tapered portion (23) ext**end**ing until an external border (9) of the **edge** (7) so that the passage ext**end**s partly **inside** a volume delimited by the portion. The base has a **sealing** skirt (22) which is in **sealing** contact with an internal **edge** of a **neck** (19).

USE - Used for being mounted on a **container** of a product distribution assembly (claimed) for applying a cosmetic product e.g. colo**ring** product, which is under the form of foam, gel, paste and cream, on a support e.g. hair.

ADVANTAGE - The application unit permits a user to see the flow of product running out of the distribution opening, thus permitting the user to control the flow of the product **within** the view of the user. The tapered portion extends until the external border of the external edge so that the passage extends from **inside** the volume delimited by the portion, thus limiting the flow of product before entering the passage, and hence allowing precise portioning of the quantity of the product to discharge on the hair. The notches can be arranged so that they can deform when subjected to constraints which are caused due to insertion of a terminal in the opening. The notches can be realized as a single piece with the base based on industrial molding technique, thus permitting to realize the application unit with **reduced** production cost. The **sealing** skirt is in **sealing** contact with the internal **edge** of the **neck**, thus assuring **sealing** of the assembly of the base on the **container**. The slotted

outer **circumfer**ence **increas**es the prehension and gripping of joints around the base, thus facilitating the handling of the application unit.

DESCRIPTION OF DRAWINGS - The drawing shows a partial sectional view along a longitudinal plane of a product application and conditioning assembly.

- 3 Distribution opening
- 4 Notches
- 7 External edge
- 9 External border
- 13 Passage
- 16 Container
- 19 Neck
- 22 Sealing skirt
- 23 Tapered portion

6/25/5 (Item 5 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0014586431 *Drawing available*WPI Acc no: 2004-768394/200476
XRPX Acc No: N2004-606286

Hair root treating device for dressing hair, has hair uplifting unit movable with respect to product container to activate product distribution valve, and distribution nozzle distributing product on hair and scalp after uplifting

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Family ( 8 patents, 34 countries )				
Patent Number	Kind	Date	Update	Туре
EP 1475010	A1	20041110	200476	В
FR 2854551	A1	20041112	200476	E
US 20040221862	A1	20041111	200476	E
EP 1475010	В1	20050831	200561	E
DE 602004000074	E	20051006	200566	E
ES 2247578	ТЗ	20060301	200618	E
DE 602004000074	T2	20060608	200638	E
EP 1475010	B2	20090624	200942	E

Local Applications (no., kind, date): EP 2004291156 A 20040505; FR 20035557 A 20030507; US 2003472463 P 20030522; US 2004840371 A 20040507; EP 2004291156 A 20040505; DE 062004000074 A 20040505; EP 2004291156 A 20040505; EP 2004291156 A 20040505; DE 062004000074 A 20040505; EP 2004291156 A 20040505; EP 2004291156 A 20040505 Priority Applications (no., kind, date): FR 20035557 A 20030507; EP 2004291156 A 20040505

## Alerting Abstract EP A1

NOVELTY - The device has a **container** (2) containing a polymer product to be applied on hair and on scalp with a product distribution valve. A hair uplifting unit (20) is movable with respect to the **container** to activate the product distribution valve. A distribution **nozzle** distributes the product on the hair and the scalp after uplifting the hair by the hair uplifting unit.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for applying a polymer product on hair.

USE - Used for treating root of a hair to dress the hair.

ADVANTAGE - The device allows the user to easily apply the product to harden the hairs base while

the hair is lifted, thus obtaining the desired hair volume. The device allows the user to activate the uplifting unit using the same hand that holds the **container**, thus allowing the other hand to help the attainment of a desired hairstyle. The product dries **within** a short duration of less than 30 **seconds**. DESCRIPTION OF DRAWINGS - The drawing shows utilization of a hair root treating device to give volume to hair.

2 Polymer product container

4 Base part

20 Hair uplifting unit

22 Activating part

40 Rods

6/25/6 (Item 6 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0014303294 Drawing available WPI Acc no: 2004-490346/200447 Related WPI Acc No: 2004-490345 XRPX Acc No: N2004-386821

Coloring dye application device for hair strand, has fixing unit placed on exterior face opposed to interior face for defining tank, where dye in tank is freed by pinching tank walls during longitudinal displacement of device

Patent Assignee: DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: DE L V; DE LAFORCADE V; DERAFOCAD V

Patent Family (14 patents, 36 countries)					
Patent Number	Kind	Date	Update	Туре	
FR 2848788	A1	20040625	200447	В	
EP 1433399	A1	20040630	200447	E	
JP 2004202251	Α	20040722	200448	E	
US 20040182408	A1	20040923	200463	E	
CN 1511486	Α	20040714	200467	E	
BR 200306272	Α	20040921	200470	E	
KR 2004057955	Α	20040702	200472	E	
EP 1433399	B1	20050831	200561	Ε	
DE 60301477	E	20051006	200566	E	
ES 2248716	ТЗ	20060316	200622	E	
DE 60301477	T2	20060614	200643	E	
CN 1285299	С	20061122	200720	E	
JP 3895723	B2	20070322	200723	E	
US 7401612	B2	20080722	200850	E	

Local Applications (no., kind, date): FR 200216578 A 20021223; EP 2003293112 A 20031211; JP 2003428426 A 20031224; US 2003442892 P 20030128; US 2003442893 P 20030128; US 2003740438 A 20031222; CN 200310114756 A 20031222; BR 20036272 A 20031222; KR 200394649 A 20031222; EP 2003293112 A 20031211; DE 60301477 A 20031211; EP 2003293112 A 20031211; CN 200310114756 A 20031211; DE 60301477 A 20031211; EP 2003293112 A 20031211; CN 200310114756 A 20031222; JP 2003428426 A 20031224; US 2003442892 P 20030128; US 2003442893 P 20030128; US 2003740438 A 20031222 Priority Applications (no., kind, date): FR 200216578 A 20021223; FR 200216577 A 20021223

## Alerting Abstract FR A1

NOVELTY - The device has an application unit (2) to retain a quantity of a coloring dye and a fixing unit (5) placed in the application unit. The fixing unit is placed on an exterior face opposed to an interior face to define a tank. Coloring dye in the tank is freed by manually pinching walls (28) of the tank during a longitudinal displacement of the device relating to a hair strand.

USE - Used for applying coloring i.e. temporary, semi-permanent, and permanent coloring, dyes on hair strand.

ADVANTAGE - The coloring dye in the tank defined by the **fixing** unit is **free**d manually by depressing the walls of the tank during longitudinal displacement of the device thus allowing progressive diffusion of the dye along the hair strand, thereby obtaining homogeneous result on the whole of hair strand. DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of an operation mode of a coloring dye application device.

2 Application unit

5 Fixing unit

7 Hand

9 Thumb

28 Walls

6/25/7 (Item 7 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0013913212 Drawing available
WPI Acc no: 2004-092802/200410
XRAM Acc no: C2004-037842
XRPX Acc No: N2004-074352

Container/ applicator especially for cosmetic product has non-spherical roll-on ball with end shaped to close container outlet when stored

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LA FORCADE V; DE LAFORCADE V

Patent Family ( 10 patents, 32 countries )					
Patent Number	Kind	Date	Update	Type	
EP 1362525	A1	20031119	200410	В	
FR 2839424	A1	20031114	200410	E	
FR 2839425	A1	20031114	200410	E	
FR 2839426	A1	20031114	200410	E	
US 20040033102	A1	20040219	200414	E	
US 6948876	B2	20050927	200563	Е	
EP 1362525	В1	20060705	200644	Е	
DE 60306575	E	20060817	200655	Е	
ES 2266747	Т3	20070301	200719	Е	
DE 60306575	T2	20070628	200742	Ε	

Local Applications (no., kind, date): EP 2003290934 A 20030415; FR 20025851 A 20020513; FR 20025852 A 20020513; FR 20025853 A 20020513; US 2002381779 P 20020521; US 2002381799 P 20020521; US 2002381804 P 20020521; US 2003435774 A 20030512; US 2002381779 P 20020521; US 2002381799 P 20020521; US 2002381804 P 20020521; US 2003435774 A 20030512; EP 2003290934 A 20030415; DE 60306575 A 20030415; EP 2003290934 A 20030415; EP 2003290934 A 20030415; DE 60306575 A 20030415; EP 2003290934 A 20030415 Priority Applications (no., kind, date): FR 20025851 A 20020513; FR 20025852 A 20020513; FR

20025853 A 20020513; EP 2003290934 A 20030415

## Alerting Abstract EP A1

NOVELTY - The container (2) is fitted with an applicator assembly in the form of a holder (50) with a cavity (58) that is linked to the container through an opening (28) and a non-spherical applicator ball (70). The ball is shaped and positioned so that one end (73) closes and seals the opening when the container is stored. A projection (20) on the outside of the container enables the outlet opening (28) to be moved to a second position in which it is separated from the ball end and the product can be applied.

USE - Applying a cosmetic product such as a roll-on deodorant.

ADVANTAGE - The container/applicator is easy to use and economical to manufacture, with the product sealed from the ball when not in use.

DESCRIPTION OF DRAWINGS - The drawing shows a vertical section through the container/applicator.

#### 2 Container

20 External projection

28 Outlet opening

50 Holder

70 Ball

72 Ball end

6/25/9 (Item 9 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0011054054 Drawing available WPI Acc no: 2001-391758/200142 XRAM Acc no: C2001-119387 XRPX Acc No: N2001-288257

Applicator for hair care product has element of elastically deformable material and slot for

inserting lock of hair

Patent Assignee: DE LAFORCADE V (DLAF-I); L'OREAL SA (OREA)

Inventor: DE L V; DE LAFORCADE V; DLAFULKAD V

Patent Family (16 patents, 31 countries)					
Patent Number	Kind	Date	Update	Type	
EP 1106101	A1	20010613	200142	В	
FR 2802066	A1	20010615	200142	E	
CA 2327372	A1	20010609	200145	E	
BR 200006407	Α	20010717	200146	E	
JP 2001224424	Α	20010821	200155	E	
CN 1298679	А	20010613	200158	E	
US 20020012562	A1	20020131	200210	E	
US 6626599	B2	20030930	200367	E	
MX 2000011477	A1	20020901	200373	E	
EP 1106101	B1	20040804	200451	E	
DE 60012668	E	20040909	200459	E	
ES 2225053	ТЗ	20050316	200525	Е	
CA 2327372	С	20050531	200537	Е	
DE 60012668	T2	20050804	200551	Е	
MX 224131	В	20041111	200558	Е	
CN 1182804	С	20050105	200620	Е	

Local Applications (no., kind, date): EP 2000403006 A 20001027; FR 199915544 A 19991209; CA 2327372 A 20001205; BR 20006407 A 20001208; JP 2000376712 A 20001211; CN 2000135234 A 20001208; US 2000733052 A 20001211; US 2000733052 A 20001211; MX 200011477 A 20001122; EP 2000403006 A 20001027; DE 60012668 A 20001027; EP 2000403006 A 20001027; CA 2327372 A 20001205; DE 60012668 A 20001027; EP 2000403006 A 20001027; MX 200011477 A 20001122; CN 2000135234 A 20001208 Priority Applications (no., kind, date): FR 199915544 A 19991209; EP 2000403006 A 20001027

## Alerting Abstract EP A1

NOVELTY - The applicator (1) consists of a container (2) for the product, and an element (4a, 4b) made at least partly from an elastically deformable material and having a slot (Q) to receive a lock of hair. The element is located inside a compartment (20) surrounding the product container and is connected to it through at least one aperture (25c). The slot is bounded by two edges (4, 4') which lie adjacent to one another for at least part of their length to form a seal when at rest. When in use a lock of hair is inserted into the slot and a portion of the product is applied to it by the elastic element as the applicator is moved along the lock from one end to the other.

USE - Applying hair care product to separate locks of hair, especially for colouring.

ADVANTAGE - Provides for convenient and contamination-free application of hair care product, easy to use and reasonable in cost.

DESCRIPTION OF DRAWINGS - The drawing shows a cross-section of the applicator.

Q Slot

1 Applicator

2 Container

4, 4' Slot edges

4a, 4b Elastically deformable element

20 Outer compartment

25c Aperture

6/25/10 (Item 10 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0010372237 Drawing available WPI Acc no: 2000-015855/200002 XRPX Acc No: N2000-012546

Valve mechanism for liquid dispenser used for dispensing cosmetics, or dermatological

products

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE L V; DE LAFORCADE V; LAFORCADE V D

Patent Family ( 14 patents, 30 countries )				
Patent Number	Kind	Date	Update	Туре
FR 2777967	A1	19991029	200002	В
EP 960828	A1	19991201	200002	E
JP 11342985	Α	19991214	200009	E
CA 2269142	A1	19991028	200014	E
CN 1238287	Α	19991215	200017	E
JP 3045501	B2	20000529	200030	E
US 6196276	B1	20010306	200115	E
MX 199903715	A1	20000801	200137	E
EP 960828	B1	20030129	200309	E
DE 69905092	E	20030306	200325	E
ES 2192023	T3	20030916	200368	E
CA 2269142	С	20031014	200369	E
MX 211064	В	20021028	200370	E
CN 1170740	С	20041013	200615	E

Local Applications (no., kind, date): FR 19985319 A 19980428; EP 1999400702 A 19990322; JP 1999118788 A 19990426; CA 2269142 A 19990427; CN 1999105200 A 19990427; JP 1999118788 A 19990426; US 1999300851 A 19990428; MX 19993715 A 19990421; EP 1999400702 A 19990322; DE 69905092 A 19990322; EP 1999400702 A 19990322; EP 1999400702 A 19990322; CA 2269142 A 19990427; MX 19993715 A 19990421; CN 1999105200 A 19990427 Priority Applications (no., kind, date): FR 19985319 A 19980428

## Alerting Abstract FR A1

NOVELTY - The actuator incorporates a **fixing** element (60) causing the filling device (31) to be maintained in contact with the **inside** of the body of the valve (11). A cuttable section (70) is broken on application of the filling valve (31) to permit movement of fluid from storage reservoir (41) to fill the reservoir (60) of the **dispenser** (1). The fluid is dispensed through the depression of the dispensing valve (4).

USE - For use in liquid-dispensing systems, for typically cosmetic and dermatological products. ADVANTAGE - The incorporation of a **comb**ined valve **mechanism** for recharging and dispensing **reduc**es overall complexity of the device, **reduc**ing the number of parts required and thereby the cost of production. The **mechanism** allows single dose-volume to be taken into the dispensing element from the main storage reservoir.

DESCRIPTION OF DRAWINGS - The drawing shows a sectional view of the mechanism.

- 1 Dispenser
- 4 Dispenser valve
- 6 Reservoir
- 11 Valve body
- 13 Filling valve
- 31 Filling device
- 41 Storage reservoir
- 60 Fixing element
- 70 Cuttable section

6/25/11 (Item 11 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009716746 *Drawing available*WPI Acc no: 2000-001337/200001
XRPX Acc No: N2000-001198

Container and applicator, especially for mascara

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE L V; DE LAFORCADE V; DE LAFORCADE V M; M. DE LAFORCADE V

Patent Family ( 9 patents, 27 countries )					
Patent Number	Kind	Date	Update	Туре	
EP 960584	A1	19991201	200001	В	
FR 2779041	A1	19991203	200004	E	
JP 11346827	Α	19991221	200010	E	
US 6026825	Α	20000222	200017	E	
JP 3210910	B2	20010925	200162	E	
EP 960584	B1	20040512	200431	E	
DE 69917128	E	20040617	200440	E	
ES 2221329	Т3	20041216	200506	E	
DE 69917128	T2	20050908	200563	E	

Local Applications (no., kind, date): EP 1999401114 A 19990506; FR 19986824 A 19980529; JP 1999150707 A 19990528; US 1999322148 A 19990528; JP 1999150707 A 19990528; EP 1999401114 A 19990506; DE 69917128 A 19990506; EP 1999401114 A 19990506; EP 1999401114 A 19990506 Priority Applications (no., kind, date): FR 19986824 A 19980529; EP 1999401114 A 19990506

#### Alerting Abstract EP A1

NOVELTY - The **container** (2) has an **inner applicator** (100) in the form of a bristle tip (13) on a stem (10) connected to a holder (9) in the form of a **cap** for the **container**. It also has a support (20) which is attached to the holder by a cover (16) and is designed to press the eyelashes against the **applicator** tip. When not in use the support **fits** into a cup (30) surrounding the **container** and attached to its base. In variants of the design the support can have teeth or bristles on one side. USE - Applying mascara to eyelashes.

ADVANTAGE - More even application and convenient to carry e.g. in a handbag. DESCRIPTION OF DRAWINGS - The drawing shows a lengthwise section through the container/applicator.

2 Container

9 Applicator holder

10 Stem

13 Bristle tip

16 Cover

20 Support

30 Cup

100 Applicator

6/25/12 (Item 12 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009698780 *Drawing available*WPI Acc no: 1999-349122/199930
XRAM Acc no: C1999-102962
XRPX Acc No: N1999-261146

# Container for mixing and application of product

Patent Assignee: L'OREAL SA (OREA)
Inventor: **DE LAFORCADE V**; L'OREAL

Patent Family ( 7 patents, 26 countries )						
Patent Number	Kind	Date	Update	Туре		
EP 925738	A1	19990630	199930	В		
FR 2772567	A1	19990625	199932	E		
CA 2255209	A1	19990619	199949	E		
US 6176389	B1	20010123	200107	E		
EP 925738	B1	20011219	200206	E		
DE 69803034	E	20020131	200216	E		
ES 2170467	ТЗ	20020801	200263	E		

Local Applications (no., kind, date): EP 1998402903 A 19981120; FR 199716172 A 19971219; CA 2255209 A 19981215; US 1998215290 A 19981218; EP 1998402903 A 19981120; DE 69803034 A 19981120; EP 1998402903 A 19981120

Priority Applications (no., kind, date): FR 199716172 A 19971219; EP 1998402903 A 19981120

## Alerting Abstract EP A1

NOVELTY - The **container** (20) is open at the **top** to allow the product to be taken on an **applicator** (1) and incorporates a scraper (32) with a curved **edge** (39) for removing surplus product from the **applicator** as it is withdrawn from the **container** along a sloping guide surface (30) The scraper is **fit**ted in place over the **top** of the **container** prior to using the **applicator** and held by **fixing**s (33, 34).

USE - For preparation and application of hair care product, e.g. colorant.

ADVANTAGE - Simple in design, low in cost and convenient to use.

DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of the container.

1 Applicator

20 Container

30 Sloping guide surface

32 Scraper

33, 34 Fixings

39 Curved edge

6/25/13 (Item 13 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009333955 *Drawing available*WPI Acc no: 1999-266234/199923
XRPX Acc No: N1999-198533

**Applicator to apply product to hair** Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Family ( 1 patents, 1 countries )						
Patent Number	Kind	Date	Update	Type		
FR 2769806	A1	19990423	199923	В		

Local Applications (no., kind, date): FR 199713223 A 19971022

Priority Applications (no., kind, date): FR 199713223 A 19971022

### Alerting Abstract FR A1

NOVELTY - The **applicator** is a **comb** (1) with hollow teeth (11) which communicate with a **bottle** (2) that holds the product. Supple teeth (18) pivot between a retracted position and a position for use when they are near the hollow teeth and rest on the scalp. **Two** deformable feet (20) hold the supple teeth in position and are articulated on each side of the hollow teeth.

USE - Applicator to spread product on hair.

ADVANTAGE - The product is spread evenly and allows user to use it herself. DESCRIPTION OF DRAWINGS - The drawings show cross sections of the applicator.

1 Comb

2 Bottle

11 Supple teeth

18 Supple teeth

20 Deformable feet

6/25/14 (Item 14 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0007907543 *Drawing available*WPI Acc no: 1996-414370/199642
XRPX Acc No: N1996-348826

Viscous product applicator - comprises product reservoir and rigid porous applicator through which product is pressurised and pushed through by piston activated by propellant gas distributor

Patent Assignee: L'OREAL SA (OREA)

Inventor: DE LAFORCADE V

Patent Family	( 10 p	atents, 20	countries	s )
Patent Number	Kind	Date	Update	Туре
EP 732273	A1	19960918	199642	В
FR 2731681	A1	19960920	199644	E
CA 2171594	Α	19960918	199703	E
EP 732273	B1	19970502	199722	E
DE 69600016	E	19970605	199728	E
ES 2104484	ТЗ	19971001	199746	E
BR 199600679	Α	19971230	199807	E
CA 2171594	С	19991005	200007	E
MX 194320	В	19991129	200106	E
US 6234698	В1	20010522	200130	E

Local Applications (no., kind, date): EP 1996400352 A 19960220; FR 19953147 A 19950317; CA 2171594 A 19960312; EP 1996400352 A 19960220; DE 69600016 A 19960220; EP 1996400352 A 19960220; EP 1996400352 A 19960220; BR 1996679 A 19960312; CA 2171594 A 19960312; MX 19961002 A 19960315; US 1996618306 A 19960318

Priority Applications (no., kind, date): FR 19953147 A 19950317

### Alerting Abstract EP A1

The **applicator** (1) for a viscous product (P) comprises a product reservoir (2) and a rigid **applicator** (4) having pores (5) in all directions. The **applicator** porosity is between 1 mum and 500 mum. The product has a viscosity chosen so that its passage through the pores by gravity and/or by **cap**illary

action is prevented. The product is compressed by a device (M1,M2) which produces a sufficient pressure to push it through the pores when distributing a dose.

The first device of compressions (M1) comprises a piston (6) associated with a piston rod (8), having a **thread** (12), fixed to an activator (10). The piston rod **thread screw**s into a complementary **thread** (14) on the piston. The **second** device of compression (M2) comprises a propellant gas and a distribution valve connected to the **applicator**.

ADVANTAGE - The **applicator** is easily used on all parts of the body gently applying the product regularly and homogeneously.

6/5/15 (Item 1 from file: 347) DIALOG(R) File 347: JAPIO (c) 2009 JPO & JAPIO. All rights reserved.

08318084 \* \* Image available\* \*

PACKAGING DEVICE INCLUDING A PLURALITY OF APPLICATORS AND SUPPORT WITH SPACER EXTENDED BETWEEN APPLICATORS, TREATMENT METHOD USING THE PACKAGING DEVICE AND MANUFACTURING METHOD OF THE PACKAGING DEVICE

Pub. No.: 2005-066344 [JP 2005066344 A] Published: March 17, 2005 (20050317) Inventor: DELAFORCADE VINCENT

Applicant: L'OREAL SA

Application No.: 2004-240837 [JP 2004240837]

Filed: August 20, 2004 (20040820)

Priority: 03 200310055 [FR 200310055], FR (France), August 20, 2003 (20030820)

International Class: A45D-033/00; A45D-033/34; A45D-034/04; B65D-081/22; B65D-083/08

### **ABSTRACT**

PROBLEM TO BE SOLVED: To provide a packaging device by which a user can easily grasp only one **applicator** at one time and a user is prevented from danger of dirtying unused **applicators**.

SOLUTION: This packaging device comprising: a plurality of **applicators** (30); and a support (10) for receiving the **applicators**, the support comprising a plurality of spacers (12) disposed between the **applicators**, **two** consecutive spacers being interconnected at one **end** in hinged manner, the support (10) being a single piece of molded plastics material.

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6/5/16 (Item 2 from file: 347) DIALOG(R) File 347: JAPIO (c) 2009 JPO & JAPIO. All rights reserved.

07976946 \*\* Image available\*\*

APPLICATION NOZZLE AND COSMETICS STORAGE/ APPLICATOR UNIT PROVIDED WITH THE NOZZLE

Pub. No.: 2004-089705 [JP 2004089705 A]
Published: March 25, 2004 (20040325)
Inventor: DE LAFORCADE VINCENT

BONNEYRAT PHILIPPE

Applicant: L'OREAL SA

Application No.: 2003-275559 [JP 2003275559]

Filed: July 16, 2003 (20030716)

Priority: 02 200209035 [FR 20029035], FR (France), July 17, 2002 (20020717)

02 200209034 [FR 20029034], FR (France), July 17, 2002 (20020717) International Class: A45D-024/22; A45D-019/02; B05B-001/02; B29C-033/42; B65D-047/42; B65D-083/00

#### **ABSTRACT**

PROBLEM TO BE SOLVED: To provide an application **nozzle** for cosmetics which can precisely apply cosmetics without allowing the cosmetics flowing out in an unintended direction, and to provide a storage/applicator unit for cosmetics including the application **nozzle**.

SOLUTION: An application **nozzle** (14) is designed so as to be mounted on a **vessel** (12) containing cosmetics to be applied to hair. The **vessel** (12) has a **means** designed so that the **nozzle** (14) is attached to the **vessel** (12) and a structure comprising at least **two** teeth (16, 22) arranged in at least one row including first and **second end** part teeth (22). In the structure, a flow passage (28) into which cosmetics stored in the **vessel** (12) can flow communicates in the longitudinal direction to at least one tooth (16). The flow passage (28) has an opening to a side direction toward at least adjacent teeth (16, 22) via at least one outlet (20). The structure is formed by molding with a single metallic mold (40) constructed so as to prevent cosmetics from the outlet (20) from flowing out over the first and **second end** part teeth (22).

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# **Foreign & International Patent Search**

# Search Strategy

```
Set
        Items
                Description
S1
       754357
              APPLICATOR? ? OR BRUSH OR BRUSHES OR COMB? ? OR ACCESSORY -
             OR ACCESSORIES OR ATTACHMENT? ? OR SPATULA? ? OR APPLICAT?(2N-
             )(DEVICE? ? OR APPARAT? OR APPTS OR MECHANISM? OR TOOL? ? OR -
             INSTRUMENT? ?)
S2
      2879212
                CAP OR CAPS OR TOP OR TOPS OR TOPPER OR COVER? ? OR LID OR
             LIDS
S3
      2499031
                RECEPTACLE? ? OR CONTAINER? ? OR BOTTLE? ? OR FLASK? ? OR -
             DISPENSER? ? OR VESSEL? ? OR CANISTER? ? OR JAR OR JARS OR TU-
             BE OR TUBES
S4
       417835
                IC=B65D?
       666162 S1:S2 AND S3:S4
S5
S6
        70570
               (FIXING OR FASTENING) (2N) (MEANS OR MECHANISM?) OR SCREW???
             OR THREAD??? OR SNAP() (FIT OR FITS OR FITTED OR FITTING OR FA-
             STEN?)
S7
        79490
                (FREE OR BOTTOM OR LOWER OR LOWEST) (2N) (EDGE? ? OR END OR
              ENDS)
        12727
S8
                (ANNULAR? OR SEALING OR CIRCULAR?) (3N) (BEAD OR BEADING OR
              LIP OR RING OR PROJECTION? OR PROTUBERANCE? OR BUMP OR BUMPS
             OR PROTRUSION?)
S9
          654
                S6(S)S7(S)S8
                (INSIDE OR INTERIOR OR INNER OR INNERMOST OR WITHIN) (5N) -
S10
         1483
             S8(5N)S1:S2
S11
          108
                S10 (S)S6 (S)S7
S12
           71
                S11 AND S4
S13
        23428
                NECK OR NECKS OR BOTTLENECK?
S14
        27953
                (DIAMETER? OR CIRCUMFEREN? OR WIDTH) (3N) (TWO OR PAIR OR -
             DOUBLE OR BOTH OR SECOND OR MORE(1N) ONE OR DIFFERENT OR DIFFE-
             RING OR INCREAS? OR DECREAS? OR LARGER OR BIGGER OR ENLARG? OR
              SMALLER OR REDUC? OR STEPPED OR STEPPING OR GRADUATED OR WID-
             ER OR NARROWER OR LOWER???)
          570
S15
                S13(5N)S14
                S1:S2 (S) S15
S16
          454
S17
            7
                S9 (S) S16
S18
            5
               S17 NOT S12
S19
            7
               S9 AND S16
S20
           0
               S19 NOT (S12 OR S18)
S21
            7
               S9 AND S15
           0
S22
               S21 NOT (S12 OR S18)
          295
S23
               S1:S2(25N)S15
S24
          72
               S1(S)S15
S25
                S24 NOT (S12 OR S18)
          68
          157
                (S23 NOT (S12 OR S18 OR S25)) AND S4
S26
File 350: Derwent WPIX 1963-2009/UD=200950
         (c) 2009 Thomson Reuters
File 347: JAPIO Dec 1976-2009/Mar(Updated 090708)
         (c) 2009 JPO & JAPIO
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# Search Results

12/12,K/20 (Item 20 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0013652175

WPI Acc no: 2003-748257/200370 XRPX Acc No: N2003-599778

Synthetic resin cap for packaged beverage, has sleeve whose inner peripheral surface is formed with threaded portion having peripheral formation angle in specific range

Patent Assignee: ALCOA CLOSURE SYSTEMS JAPAN LTD (ALUM); HARADA M (HARA-I); HISANO M

(HISA-I); SHIBAZAKI SEISAKUSHO KK (SHIB-N); TSUTSUMI H (TSUT-I)

Inventor: HARADA M; HISANO M; KUNO M; TSUTSUMI H

23 patents, 100 countries ) Patent Number	Kind	Date	Application	Number	Kind	Date	Update	Type
WO 2003074380	A1	20030912	WO 2003JP2	439	А	20030303	200370	В

Priority Applications (no., kind, date): JP 200257617 A 20020304

## Alerting Abstract WO A1

NOVELTY - A cap main unit has the top plate whose inner surface is formed with an annular seal projection which is to be fitted on a vessel mouth. A threaded portion having a peripheral formation angle of 600-720(deg), is formed on the inner peripheral surface of a sleeve of the cap main unit, and is divided into several equally spaced threaded partitions.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

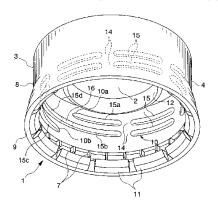
- 1. closing device; and
- 2. packaged beverage.

USE - For closing packaged beverage (claimed).

ADVANTAGE - Since the **thread**ed portion of the sleeve of the **cap** main unit is engaged by the external **thread** in the **vessel** mouth, the packaged beverage is properly closed by the synthetic resin **cap**.

DESCRIPTION OF DRAWINGS - The figure shows a perspective view of the synthetic resin cap.

# Main Drawing Sheet(s) or Clipped Structure(s)



**Title Terms** /Index Terms/Additional Words: SYNTHETIC; RESIN; **CAP**; PACKAGE; BEVERAGE; SLEEVE; **INNER**; PERIPHERAL; SURFACE; FORMING; **THREAD**; PORTION; FORMATION; ANGLE; SPECIFIC; RANGE

Claims:substantially vertically downward from the inner surface of the top plate (2) and an expanding cylindrical section (33b) which widens in diameter downward from a bottom edge of the erect cylindrical section (33a) and has a thickness greater than that of the erect cylindrical section (33a); a positioning protrusion (34) which contacts the opening edge of the container opening (20) is provided on the top plate (2) on an outer surface side of the circular inner seal projection (32); andwhen the synthetic resin cap (31) is attached to the container opening (20), the circular opening edge seal projection(33) is pressed at a midsection of a long direction thereof by the opening edge of the container opening (20) which is positioned by the ...

12/12,K/21 (Item 21 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0013406716

WPI Acc no: 2003-497063/200347 XRPX Acc No: N2003-395161

Opening top for liquid paper container has location guide rib, formed on upper face periphery edge of support ring, which slidably contacts contact sealing ring which is formed on surrounding wall

Patent Assignee: TOPPAN PRINTING CO LTD (TOPP)

Inventor: IWASAKI A; KAKIGI N

2 patents, 1 countries) Patent Number	Kind	Date	Application	Number	Kind	Date	Update Type
JP 2003020054	Α	20030121	JP 20012061	16	Α	20010706	200347 B

Priority Applications (no., kind, date): JP 2001206116 A 20010706

#### Alerting Abstract JP A

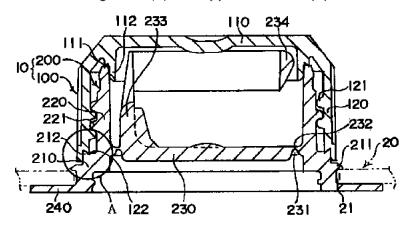
NOVELTY - A location guide rib (212), formed on the upper face periphery **edge** of a support **ring** (210), **slid**ably contacts a contact **sealing ring** (122) which is formed on a surrounding wall (120). USE - For liquid paper **container**.

ADVANTAGE - Suppresses infiltration of cooling water by providing the location guide rib which slidably contacts the contact sealing ring.

DESCRIPTION OF DRAWINGS - The figure shows a sectional view of the opening top.

- 120 Surrounding wall
- 122 Contact sealing ring
- 210 Support ring
- 212 Location guide rib

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: OPEN; TOP; LIQUID; PAPER; CONTAINER; LOCATE; GUIDE; RIB; FORMING; UPPER; FACE; PERIPHERAL; EDGE; SUPPORT; RING; SLIDE; CONTACT; SEAL; SURROUND; WALL

Claims:angled triangle to the inner periphery edge of this level|step difference, When the said spout is screwed together and equip|installed with the said cap, the contact sealing|blocking ring suspended to the inner periphery edge of the surrounding wall lower end part of the said cap inserts into the top internal peripheral surface of the position guide rib provided in the upper surface outer-periphery edge...

12/12,K/25 (Item 25 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0012327615

WPI Acc no: 2002-269505/200231 XRPX Acc No: N2002-209712

Plastic screw cap for bottles of drink has annular internal sealing strip and projecting internal ring, strip fitting over neck of bottle and being held between ring and internal surface of bottle neck

Patent Assignee: WEISS KG (WEIK)

Inventor: WEISS J

6 patents, 93 countries Patent Number	Kind	Date	Application	Number	Kind	Date	Update	Type
WO 2002018222	A1	20020307	WO 2001DE3	283	Α	20010830	200231	В

Priority Applications (no., kind, date): DE 10042837 A 20000830

### Alerting Abstract WO A1

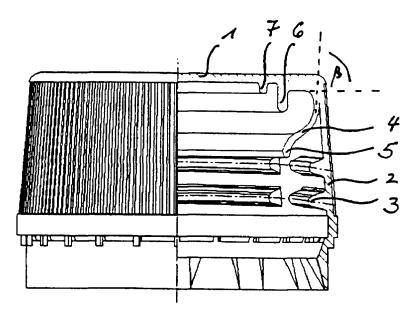
NOVELTY - The plastic **screw cap** has an **annular** internal **sealing** strip (4) attached to the **top** of the **cap** which has a thicker section (5) at its **free end** and a projecting internal **ring** (6) nearer the center of the **cap**. When the **cap** is **screw**ed on to the **bottle neck** the **sealing** strip **fits** between its external **thread** and the internal **thread** (2, 3) on the **cap** and over the **top** of the **bottle**, so that the thicker section is held between the **ring** and the internal surface of the **bottle neck**.

USE - For **bottle**s of drink.

DESCRIPTION OF DRAWINGS - The drawing shows the cap in partial cross-section.

- 2, 3 Internal thread on cap
- 4 Internal sealing strip
- 5 Thicker section on sealing strip
- 6 Projecting internal ring

Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: PLASTIC; SCREW; CAP; BOTTLE; DRINK; ANNULAR; INTERNAL; SEAL; STRIP; PROJECT; RING; FIT; NECK; HELD; SURFACE

Original Abstracts:strip (4) has a bead-like thickened section (5) at the end facing away from the cap bottom (1). When the container (9) is closed with the screw-type cap, this thickened area is jammed between a sealing ring bead (6) and the inside of the opening area (8) of the container (9)..... bead-like thickened section (5) at the end facing away from the cap bottom (1). When the container (9) is closed with the screw-type cap, this thickened area is jammed between a sealing ring bead (6) and the inside of the opening area (8) of the container (9).

12/12,K/26 (Item 26 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0012316283

WPI Acc no: 2002-257884/200230 XRPX Acc No: N2002-199663

Tamperproof system for plastic cap has annular projection on skirt extending axially inside

ring

Patent Assignee: BERICAP (BERI-N); BERICAP SARL (BERI-N); RICAL SA (RICL)

Inventor: GRANIER F; NUSBAUM P

8 patents, 94 countries Patent Number	Kind	Date	Application	Number	Kind	Date	Update	Type
WO 2002016217	A1	20020228	WO 2001FR2	609	А	20010813	200230	В

Priority Applications (no., kind, date): FR 200010865 A 20000823

#### Alerting Abstract WO A1

NOVELTY - The tamperproof system (10) for a plastic **cap** (1) with shea**ring** bridges (13) between the **free end** of a skirt (3) and a **ring** (11) with locking elements (19) has an **annular projection** (22) on the skirt which ext**end**s axially from its **free edge inside** the **ring**. On assembly the **projection** acts as an **inner** locking wall for the **ring**, preventing it from going **inside** the collar and keeping the bridges intact.

USE - Tamperproof plastic cap for container.

ADVANTAGE - The annular projection on the skirt avoids the risk of damage to the tamperproof

ring on assembly.

DESCRIPTION OF DRAWINGS - The drawings show perspective views and partial cross-sections of the cap

1 Cap

3 Skirt

10 Tamperproof system

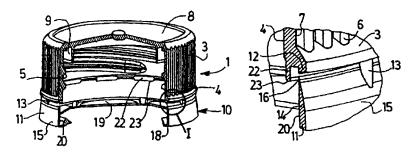
11 Ring

13 Shearing bridges

19 Locking elements

22 Annular projection

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: TAMPER; SYSTEM; PLASTIC; CAP; ANNULAR; PROJECT; SKIRT: EXTEND; AXIS; RING

Claims:which it is intended, a movement of the end part (14) of the ring (11) turned towards the skirt towards the axis (2) of the cap (1),characterised in that it also comprises an annular projection (22) on the skirt (3) that extends in the axial direction towards and inside the ring (11) from the free edge (17) of the skirt (3) to the right of the said space (e) and at least to the right of the free end part (14) of the ring (11) turned towards the skirt (3), this projection (22) acting as a blocking wall for the ring towards the inside, by contact between the projection (22) and the end part (14) of the ring, which exerts a radial stress directed towards the...

12/12,K/29 (Item 29 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0010563177

WPI Acc no: 2001-167132/200117 XRPX Acc No: N2001-120354

Cap for detachable sealing of vessels
Patent Assignee: KASHKAROV G G (KASH-I)

Inventor: KASHKAROV G G

	1 patents, 1 countries ) Patent Number	Kind	Date	Application	Number	Kind	Date	Update	Туре
***************************************	RU 2160693	C1	20001220	RU 19991164	417	Α	19990729	200117	В

Priority Applications (no., kind, date): RU 1999116417 A 19990729

#### Alerting Abstract RU C1

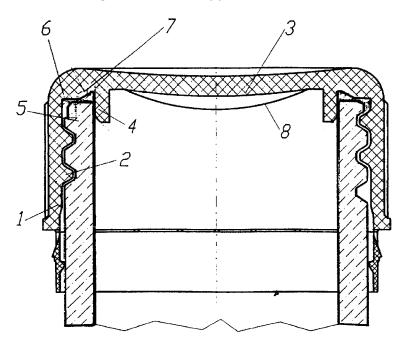
NOVELTY - Invention relates to devices designed for tight sealing of vessels, particularly, to caps made of elastic material. Proposed cap has cylindrical side wall with inner thread and cap bottom. Sealing projection in place of conjugation of wall bottom engages with end face part of vessel neck. Stopping element made on inner surface of cap bottom engages with side surface of vessel

neck. Stopping element is made in form of radial distance ring. Sealing projection has ring flat parallel to inner surface of cap bottom and adjoining cylindrical side wall of cap. It has also ring conical surface mating through larger base with ring flat ands through smaller base, with radii distance ring in place of its contact with cap bottom. Stiffening ribs are made on inner surface of cap bottom inside radial distance ring.

USE - **Sealing** facilities.

ADVANTAGE - Simplified design, provision of high degree of vessel sealing. 2 cl, 1 dwg

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: CAP; DETACH; SEAL; VESSEL

12/12,K/39 (Item 39 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0007891053

WPI Acc no: 1996-069199/199608 Related WPI Acc No: 1997-131491 XRPX Acc No: N1996-058111

Dispensing container for condiment - has annular ring with inner and outer concentric cylinders for connection with nipple and dispensing spout

Patent Assignee: LEE G K (LEEG-I)

Inventor: LEE G K

3 patents, 2 countries ) Patent Number	Kind	Date	Application Nu	ımber Kind	Date	Update Type
CA 2129714	Α	19951015	CA 2129714	Α	19940808	199608 B

Priority Applications (no., kind, date): US 1994227730 A 19940414

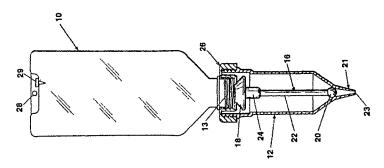
### Alerting Abstract CA A

The threaded connector for connecting a dispensing bottle having a neck to a dispensing nozzle

comprises: an **annular ring** having an upper surface, a **lower** surface, an outside **diameter** and an **inside diameter**. There is an outer concentric cylinder and an **inner** concentric cylinder both secured to the same surface of the **annular ring**. The **inner** concentric cylinder has internal **thread**s for connection to the nipple.

The internal concentric cylinder has internal **thread**s for **thread**ably receiving the **neck**. There is a seat at about the **end** of the **inner** concentric cylinder at a location away from the **annular ring**. ADVANTAGE - When one wishes to replace storage **bottle** or place it in storage, all one has to do is reinsert plug in hole and turn **bottle** right side up.

## Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: DISPENSE; CONTAINER; CONDIMENT; ANNULAR; RING; INNER; OUTER; CONCENTRIC; CYLINDER; CONNECT; NIPPLE; SPOUT

Original Abstracts:end of the space between the cylinders. The inside of the outer cylinder is provided with threads for threadably receiving the top of the dispensing nipple into the side of the connector away from the annular ring. The inside of the inner cylinder is provided with internal threads to threadably receive the threaded neck of the storage bottle inserted from the side of the annular ring away from the concentric cylinders. The lower end of the internal concentric cylinder is provided with a seat which mates with the truncated cone shaped member within the dispensing nipple to seat when the condiment bottle is...

12/12,K/53 (Item 53 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0004729973

WPI Acc no: 1989-094972/198913

Screw cap for bottle for sparkling wine - has internal skirt which fits inside bottle neck and flexible sealing lip

Patent Assignee: PFEFFERKORN & CO GM (PFEF-N)

Inventor: PFEFFERKOR B; PFEFFERKOR H; PFEFFERKORN B; PFEFFERKORN H; REITER V

7 patents, 8 countries ) Patent Number	Kind	Date	Application	Number	Kind	Date	Update Type
EP 308753	Α	19890329	EP 19881148	311	Α	19880909	198913 B

Priority Applications (no., kind, date): DE 3732112 A 19870924

### Alerting Abstract EP A

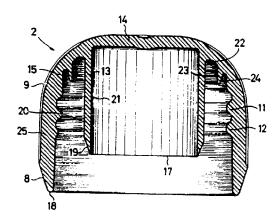
The **screw cap** is for a **bottle** esp. for a **bottle** containing a sparkling wine. The **cap** (2) has an internal **screw thread** which engages a **screw thread** (11,12) on the **bottle neck**. A skirt (13) projects axially inwards from the **cap end** wall.

This skirt has a smooth outer surface and is a close fit in the bore of the bottle neck. A sealing lip

(15) surrounds the skirt and extends from the cap end wall (14) to a point some distance above the beginning of the screw thread (11,12). When the cap is screwed onto the bottle this lip (15) forms a seal with the end face of the bottle mouth.

USE - Screw cap for bottles for sparkling wines.

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: SCREW; CAP; BOTTLE; SPARKLING; WINE; INTERNAL; SKIRT; FIT; NECK; FLEXIBLE; SEAL; LIP

### Claims: the bottle;

- b) the **sealing** shank (13) projects beyond the area of the **inner end** wall carrying the **thread** (11, 12);
- c) between the upper **end** of **the sealing** shank (13) and the **first** turn (11) **of** the internal **thread** a **sealing** lip (15) is provided;
- d) the **inner diameter** of the **lower edge** of the **cap** (25) is **larger** than the outer **diameter** of the **bead** (4);
- e) the cap (2) is provided with an area of curvature at its outer surface whereby the sealing lip (15) runs from the inner surface of the cap (2) being opposite to the area of curvature; characterized by the following features:br> f) the lower edge (18) of the cap (25) has a larger distance from the inner end surface (14) than the lower edge (17) of the sealing shank (13);
- g) the **sealing** shank (13) has a smooth outer surface (20) over its whole **outer periphery** which runs concentrically with **respect** to the imaginary **longitudinal** axis of **the cap** (2).

12/12,K/58 (Item 58 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0001772444

WPI Acc no: 1979-B5602B/197908

Canister cap with metering pipe - has pipe closed off at bottom and with lateral openings at top

Patent Assignee: KIEHL J (KIEH-I)

Inventor: KIEHL J

1 patents, 1 countries ) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 2734625	Α	19790215	DE 2734625	Α	19770801	197908	В
			DE 2734625	Α	19770801		

Priority Applications (no., kind, date): DE 2734625 A 19770801

### Alerting Abstract DE A

The **canister**, **cap**, partic. of the **screw** type, **fits** on the filling and pour**ing** spout, and has a metering pipe extending **inside** the **canister**. The pipe (10) is closed at the **lower end** by base member (14), and at the **top** has **one or more** lateral openings (15). These can comprise **two** or more slots in the pipe wall, separated from each other by intermediate ribs.

Above the openings the pipe can be fixed to the **cap** crown (8), ext**end**ing concentrically through and clear of the spout (2).

An **annular** chamber is formed between the **top** of the pipe and the **inside** of the **cap** skirt, to take a **sealing ring** (13).

Title Terms / Index Terms / Additional Words: CANISTER; CAP; METER; PIPE; CLOSE; BOTTOM; LATERAL; OPEN; TOP

12/12,K/59 (Item 59 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0001007256

WPI Acc no: 1975-M2934W/197546

Two component product bottle cap - has separating containers in bottle neck enclosed by

screw cap

Patent Assignee: DOLL GMBH (DOLL-N); DOLORGIT ARNZNEIMIT (DOLA); INGE SPA (INGE-N)

2 patents, 2 countries Patent Number	) Kind	Date	Application Nur	nber Kind	Date Update T	уре
CH 567978	Α	19751015			197546 B	

Priority Applications (no., kind, date): IT 197220196 A 19720203; IT 197319039 A 19730109

# Alerting Abstract CH A

Two containers one with an open top and closed bottom are inserted in the bottle neck. Inserted in the first container is the second container which is provided at its bottom end with an arrangement for tearing off the bottom of the first container. The containers are enclosed by a screw cap with an axial tubular projection on its inner surface. With the screw cap in position on the bottle neck its tubular projection is in sealing contact with the top surface of the first container and embraces the second container in such a way that there is a predetermined clearance between top surface of the second container and inner surface of the screw cap.

Title Terms / Index Terms / Additional Words: TWO; COMPONENT; PRODUCT; BOTTLE; CAP; SEPARATE; CONTAINER: NECK; ENCLOSE; SCREW

12/5/69 (Item 10 from file: 347)
DIALOG(R) File 347: JAPIO

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07661189 \*\* Image available\* \*
HIGHLY SEALABLE CONTAINER

Pub. No.: 2003-155048 [JP 2003155048 A]

Published: May 27, 2003 (20030527)

Inventor: WADA KIYOSHI HAYASHIDA NORIO KANEYUKI SHINJI SAITO TAKASHI SEKI TAKEKUNI

Applicant: TOPPAN PRINTING CO LTD

Application No.: 2001-350225 [JP 2001350225]

Filed: November 15, 2001 (20011115) International Class: B65D-041/04

#### **ABSTRACT**

PROBLEM TO BE SOLVED: To provide a highly sealable container having a cap whose opening/closing torque is small so that even a person of little strength may easily handle it, which does not loose in the courses of distribution and storage, and whose screwing completion position is distinct.

SOLUTION: A container main body 100 has a pedestal ring which is provided to the underside of an external thread formed on an outer peripheral surface of a mouth thereof. An engaging protrusion 140 whose right side is formed into a vertical shape in section is provided on an upper face of the pedestal ring at a position of the underside of a lower forward end of the external thread, and a vertical locking protrusion 150 is provided at a predetermined position of the underside of the external thread formed on the outer peripheral surface of the mouth. An inside stopper 200 is provided with an outer sealing ring 220, which has a gap between the outer peripheral surface of the mouth of the container main body and an inner peripheral surface of the outer sealing ring, in a suspended state on the underface of an outer peripheral edge of a top sheet of the inside stopper. A contact sealing ring and an inner sealing ring are provided inside the outer sealing ring in a suspended state. A cap 300 is provided with a notch 340, into which the locking protrusion of the container main body is detachably fitted, at a position located in the vicinity of a lower forward end of an internal thread formed in an inner peripheral face of a peripheral wall of the cap. An engaging protrusion 350, which abuts against the engaging protrusion of the container main body and whose left side is formed into a vertical shape in section, is provided on the underface of the peripheral wall of the cap.

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12/5/70 (Item 11 from file: 347) DIALOG(R) File 347: JAPIO

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06458351 \* \* Image available\* \* LIQUID POURING CONTAINER

Pub. No.: 2000-043924 [JP 2000043924 A] **Published:** February 15, 2000 (20000215)

Inventor: TSUCHIDA HARUO

Applicant: YOSHINO KOGYOSHO CO LTD **Application No.:** 10-230126 [JP 98230126]

Filed: July 30, 1998 (19980730)

International Class: B65D-055/02: B65D-047/06

#### ABSTRACT

PROBLEM TO BE SOLVED: To manufacture a superior liquid pouring container to be carried conveniently and good to handle, which can grasp clearly the state of the case of unscrewing a cap peripheral wall and screwing the same thereon again and can be manufactured without the necessity of having a particularly large equipment such as the shrink packaging.

SOLUTION: In a liquid pouring container on which its peripheral wall is screwed on the outer periphery of a mouth neck section 3 of a container A to fit a cap B with a nozzle, a plurality of protruded engaging pieces 28 extended inner upward obliquely from the inner periphery of an annular base section 27 fitted and engaged with the inner peripheral lower end of the peripheral wall 9 and a plurality of protruded pieces 29 for preventing the fitting of the cap again from the outer periphery to the outer upward obliquely are protruded respectively in the peripheral direction. Respective engaging pieces are overridingly engaged with lower face of an engaging protruded line 5 with respective engaging pieces protruded below the outer periphery of the mouth neck section, and a sealed ring X storing respectively protruded pieces 29 for preventing the fitting of the cap again in a recess 15 formed on the inner face of a cap main body peripheral wall 9 is provided. When the sealing ring X is unscrewed from the cap, the ring is removed therefrom and cannot be fitted again by the arrangement to clarify that it is already unsealed.

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12/5/71 (Item 12 from file: 347) DIALOG(R) File 347: JAPIO

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05579160 \* \* Image available\* \*

#### CONTAINER CAP EXCELLENT IN SEGREGATIVE DISPOSAL PROPERTY

Pub. No.: 09-193960 [JP 9193960 A] Published: July 29, 1997 (19970729)

Inventor: SASO TAKAYUKI

YOGO KOJI

Applicant: JAPAN CROWN CORK CO LTD [368235] (A Japanese Company or Corporation), JP (Japan)

**Application No.**: 08-006497 [JP 966497] **Filed**: January 18, 1996 (19960118)

International Class: [6] B65D-047/36; B65D-041/34

JAPI O Class: 31.2 (PACKAGING -- Containers)

# ABSTRACT

PROBLEM TO BE SOLVED: To improve the segregative disposal property and tamper-evident proprty of a **cap** by a method wherein a thin wall part formed at the **lower end** of a tubular shell of an **inner cap** is peeled off to form a cutout.

SOLUTION: A container cap consists of an inner cap 1 and an upper cap 2 that is screwed on the inner cap 2. A thin wall part 20 is formed at a position along the lower end of a cylindrical shell 6 of the inner cap 1 and under an annular protrusion 7 of the cylindrical shell 6, and connected to the cylindrical shell 6 by tearable bridges 21. The thin wall part 20 is thin enough to turn up easily with a hand or a screwdriver without providing a handle, and can be peeled off by tearing off the bridges 21. By peeling off the thin wall part 21, a cutout having a shape corresponding to the thin wall part 20 is formed at the open end of cylindrical shell 6. Therefore, the thin wall part 20 of the inner cap 1 mounted on the mouth of a container is peeled off to form the cutout, and the inner cap 1 can be removed from the mouth of the container by putting a bottle opener in the cutout.

18/12,K/2 (Item 2 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0013121665

WPI Acc no: 2003-203515/200320 XRPX Acc No: N2003-162164

Screw cap for bottle has additional frustro-conical interior sealing skirt whose lower end fits over top thread on bottle neck and has diameter less than exterior diameter of neck

Patent Assignee: BERICAP (BERI-N); RICAL SA (RICL)

Inventor: CELERIER Y; GRANIER F; LE CAM J

3 patents, 98 countries ; Patent Number	Kind	Date	Applicati	on Numb	er Kind	Date	Update	Type
FR 2828173	A1	20030207	FR 20011	0335	Α	20010801	200320	В

Priority Applications (no., kind, date): FR 200110335 A 20010801

### Alerting Abstract FR A1

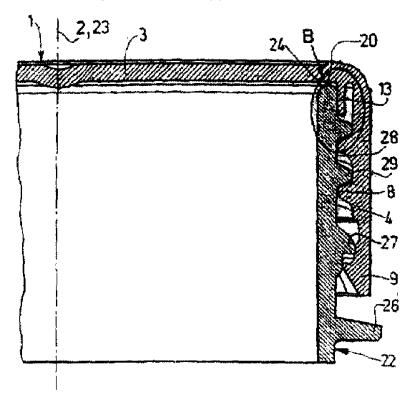
NOVELTY - The screw cap for a bottle has an additional interior sealing skirt (13). This is frustroconical in shape and its lower end fits over the top thread on the bottle neck. The diameter of the lower end is less than the exterior diameter of that section of the neck.

DESCRIPTION - An INDEPENDENT CLAIM is included for a **bottle neck** for use with the **cap**. USE - **Screw cap** for a **bottle**.

DESCRIPTION OF DRAWINGS - The drawing shows a cross-section through part of the cap fitted on the bottle neck.

13 Frustro-conical interior sealing skirt

### Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: SCREW; CAP; BOTTLE; ADD; CONICAL; INTERIOR; SEAL; SKIRT; LOWER; END; FIT; TOP; THREAD; NECK; DIAMETER; LESS; EXTERIOR

Original Abstracts:of the sealing skirt towards its free end portion being smaller than the external diameter of the neck. The closure cap can also comprise an annular lip (20) designed to improve attachment of a liner to the rim of the neck or contact between the liner and the rim...

18/12,K/3 (Item 3 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0009297846

WPI Acc no: 1999-228145/199919 Related WPI Acc No: 2001-181949 XRPX Acc No: N1999-168754 **Applicator for mascara bottle** Patent Assignee: CHANG C (CHAN-I) Inventor: CHANG C; SHEFFLER R J

3 patents, 79 countries Patent Number	S) Kind	Date	Application	Number	Kind	Date	Update Type
US 5884634	Α	19990323	US 1997990	977	Α	19971215	199919 B

Priority Applications (no., kind, date): US 1997990977 A 19971215; US 199870583 A 19980430

### Alerting Abstract US A

NOVELTY - A hollow cylindrical separator (30) fitted into a narrow cylindrical neck (14) of bottle (10) has an annular sealing lip (38), to seat a transverse sealing surface (20) of a screw cap (12) and an annular wiping blade (32), at the bottom. An applicator rod (22) extending from a sealing surface (20) has an applicator brush (28) at its bottom.

DESCRIPTION - The separator is a single piece molded plastic and had deflectable retainers (42) which engages in shoulder of **bottle neck**. The wiper blade may be shaped **circular**, a star shape or a scalloped or serrated **inner** surface configuration.

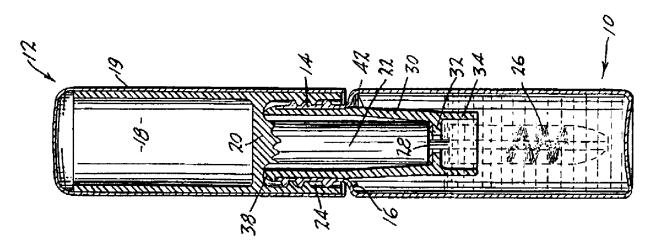
USE - For dispensing mascara.

ADVANTAGE - Offers simple structure with leak proof and spill proof **applicator** as separator with **seal lip** and wiper blade is provided. Prevents soiling of hands and clothes as wiper blade prevents excess mascara adhe**ring** to **applicator**.

DESCRIPTION OF DRAWINGS - The figure is an axial cross sectional view of mascara container with applicator.

- 10 Bottle
- 14 narrow cylindrical neck
- 20 Sealing surface
- 22 Applicator rod
- 28 Brush
- 30 Separator
- 32 Wiping blade
- 38 Annular sealing lip

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: APPLY; MASCARA; BOTTLE

Original Abstracts:end of the separator member is a doctor blade, which normally surrounds the juncture of the brush and applicator rod. The doctor blade has an annular sealing bead which seals against the bottom surface of the applicator rod, and the latter is commensurate in diameter with that of the brush. The separator member also seals against the sealing wall of the screw cap, whereby the separator member is sealed and maintains the applicator rod in a clean condition. The orifice of the doctor blade can have numerous different configurations to effect different wiping effects on the brush as the latter is withdrawn for use... ... is a doctor blade (32) which normally surrounds the junction of the brush (26) and the applicator rod (22). The doctor blade (32) has an annular sealing bead (36) which seals against the sealing wall of the screw cap (12), whereby the separator member (30) is sealed and maintains the applicator rod (22) in a clean condition. The orifice (46) of the doctor blade (32) can have numerous different configurations to effect different wiping effects on the brush (26) as the latter is withdrawn for use.

25/12,K/24 (Item 24 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0010015649

WPI Acc no: 2000-319938/200028 XRPX Acc No: N2000-240144

Mascara unit comprises fluid-filled container and cap whereby choice of applicators or

handles can be fitted to inside of cap

Patent Assignee: GEKA BRUSH GMBH (GEKA-N); KARL GEKA-BRUSH GMBH GEORG (KARL-N)

Inventor: DUMLER N; FISCHER W; FISCHE V

10 patents, 29 countries ) Patent Number	Kind	Date	Application	n Number	Kind	Date	Update Typ
EP 995368	A2	20000426	EP 1999119	705	Α	19991005	200028 B

Priority Applications (no., kind, date): DE 19848471 A 19981021; EP 1999119705 A 19991005

# Alerting Abstract EP A2

NOVELTY - The mascara unit has a **container** (1a) for the liquid and a closure **cap** (5a) which **fits** onto the **neck** (3a). **Inside** the **cap** is a handle (17a) and **applicator**. The **applicator** can be **fit**ted to the handle or the handle can be connected e.g. by detent connection to the **cap** by the user after the user has chosen the selected **applicator** or handle from a variety of same. The **container** has a separate closure and **sealing** device without handle or **applicator**.

DESCRIPTION - Preferred Features: The connection can be a detent **bead** and detent shoulder. USE - For cosmetics, hair dye, etc.

ADVANTAGE - Allows **differ**ent types of **brush**es or **applicator**s to be connected to the **container**. DESCRIPTION OF DRAWINGS - The figure shows a longitudinal section through the mascara unit.

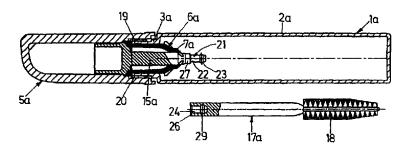
1a Container

3a Neck

5a Closure cap

17a Handle

Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: MASCARA; UNIT; COMPRISE; FLUID; FILLED; CONTAINER; CAP; CHOICE; APPLY; HANDLE; CAN; FIT

Claims: of the basic body; a closing cap to be placed on the neck; a rod holder fixed to the closing cap; a first rod having an applicator at the first end thereof, the first rod being releasably engaged at a second end thereof to the rod holder; a stripper fixed in the neck of the body permitting the rod holder to extend through the stripper so that the applicator is stripped upon withdrawal from the receptacle; wherein the rod holder forms a closing and sealing device with the stripper sealing the receptacle when the applicator rod and applicator are not engaged thereto; and at least a second rod with a different applicator releasably engagable on said rod holder, whereby said first rod and applicator and said second rod and different applicator may be interchangeably engaged to said rod holder.

25/12,K/30 (Item 30 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0009067119

WPI Acc no: 1998-312340/199827 XRPX Acc No: N1998-244816

Resealable container end for attachment to liquid holding container - has neck member and hat member which can be sealed onto and removed from neck member, with end providing resealing containment of container and improved months for better pour opening

Patent Assignee: DAYTON SYSTEMS GROUP INC (DAYT-N)

Inventor: BACHMANN C; BACHMANN H C; COOK S T; COOK T; SCHUBERT F; SCHUBERT J F;

SCHUBERT J R; SCHUBERT R; STRONG E; STRONG L E

14 patents, 25 countries) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998022364	A1	19980528	WO 1997US22074	Α	19971117	199827	В

Priority Applications (no., kind, date): US 199631119 P 19961118; WO 1997US22074 A 19971117; US 1997971523 A 19971117; US 1999240841 A 19990125

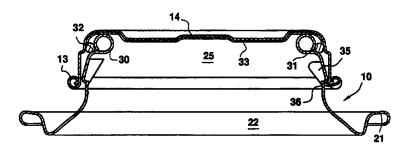
# Alerting Abstract WO A1

The **container end** comprises a **neck** portion (11) having a **lower edge** including a peripheral wing part (20) for incorporation in a rolled seam with a rim of a can body. The **neck** portion has a generally cylindrical central upper part of less **diameter** than the wing part and including a pour**ing** opening with a surrounding curl. There are a first set of lugs (35) formed outward to a first **diameter** about the upper part for cooperation with a closure hat, and a removable closure hat member (12) cover**ing** the pour**ing** opening and including a **top** panel and a rim shaped to ext**end** downward from the **top** panel around the upper **neck** part, the rim terminating in a generally **circular lower edge**. There are a **second** set of lugs (36) formed inward **within** the rim of the hat member to a **second diameter** less than the first **diameter** of the first set of lugs to latch under the first set of lugs to retain the hat member in **sealed** relationship with the surrounding curl of the pour**ing** opening. The **end** further comprises a **seal** member **within** the hat member, the first set of lugs having inclined

cam surfaces facing downward of the **neck** portion for compressing the **seal** member against the pou**ring** opening.

ADVANTAGE - Provides resealable end including removable cap construction (also called neck and hat herein) which can be added, such as by conventional seam, to metal container body to obtain resealing containment of partial contents retained in container, even under pressure, and to provide improved mouth construction (or pour opening) for better pouring and for comfortable direct.

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: RESEAL; CONTAINER; END; ATTACH; LIQUID; HOLD; NECK; MEMBER; HAT; CAN; SEAL; REMOVE; CONTAIN; IMPROVE; MONTH; POUR; OPEN

Claims:with said upper neck part curl (30, 55) of said pouring opening, characterised in that(i) said releasable container end (11, 12) is adapted for attachment to said container; (ii) said neck portion (11) has a lower edge including a peripheral wing part (20) for incorporation with an upper end or rim of a can body (15) of said container; (iii) said upper neck part (25) has a lesser diameterthan said wing part (20); and(iv) said upper neck part (25) includes a ledge (31) about and immediately below said upper... member is in place on said neck portion, a second set of lugs formed inward within said rim of said closure hat member to a second diameter less than said first diameter of said first set of lugs to latch under said first set of lugs to retain said seal member in sealed relationship with said surrounding curl... ... The method of manufacturing a container end including a neck member for seaming to a can body and a hat member forming with the neck member a resealable closure, comprising the steps offorming a...

25/12,K/39 (Item 39 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0007890670

WPI Acc no: 1996-059640/199607 XRPX Acc No: N1996-049758

Dispenser for paste type substances - has tie rod connecting closure valve and piston activated by press button so they interact with each other with each press of button

Patent Assignee: BRAMLAGE GMBH (BRAM-N); RPC BRAMLAGE GMBH (RPCB-N)

Inventor: HACKMANN L; HAHL M

10 patents, 20 countries ) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 691284	A2	19960110	EP 1995110328	· £	19950703	3	i

Priority Applications (no., kind, date): DE 4423608 A 19940706

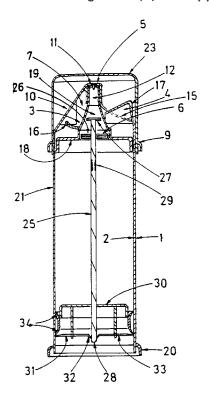
### Alerting Abstract EP A2

The press button (4) when activated opens and closes a centrally mounted closure valve (5) which is coupled to the piston (30) by a tie rod (25). This tie rod passes axially through the **dispenser** housing (1) so that the valve and piston interact with each other with each stroke of the press button.

The tie rod has a holder (26) formed by a perforated radial disc so that it is held with a slight axial clearance in a guide cylinder (6) of the valve body (7). The housing has at the **top edge** area a **neck** (9) with **reduced diameter** to hold an **applicator** (10).

ADVANTAGE - Economical structurally simple design with does not have leaks after use.

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: DISPENSE; PASTE; TYPE; SUBSTANCE; TIE; ROD; CONNECT; CLOSURE; VALVE; PISTON; ACTIVATE; PRESS; BUTTON; SO; INTERACT

25/12,K/47 (Item 47 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0006212159

WPI Acc no: 1993-001076/199301 XRPX Acc No: N1993-000671

Bottle closure cap for twin-component packaging - has threaded collar projecting into bottle neck and continuing upwards to hold lid

Patent Assignee: FINKE GMBH & CO KG ROBERT (FINK-N); ZELLER PLASTIK GMBH (ZELL-N)

Inventor: SCHUMACHER C; ZIEGLER A

6 patents, 10 countries ) Patent Number	Kind	Date	Application	Number	Kind	Date	Update Type
EP 520207	A1	19921230	EP 19921091	54	Α	19920530	199301 B

Priority Applications (no., kind, date): DE 4121540 A 19910628 Regional Designated States: AT BE CH DE FR GB LI LU NL

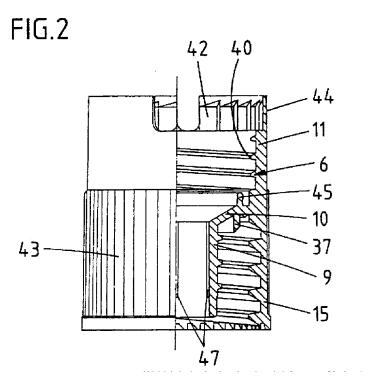
## Alerting Abstract EP A1

The collar wall (9) can have a section of **smaller diameter** and can change over an outwardly aligned transition zone (10) into a cylindrical collar wall (11) of **larger diameter** so that a Z-profile is formed in cross-section. The **larger diameter** area can have, on the **inside** a positive lock for the **lid** which provides a fluid-tight closure and can be designed as a **bottle**-like component.

The **neck** of this upper **bottle** then **screw**s into the collar wall with the **larger diameter**. The **inner** wall can have round the upper **edge** a substantially vertical run-over cam (42).

ADVANTAGE - Simplified manufacture and easy handling, with the largest possible cap volume.

## Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: BOTTLE; CLOSURE; CAP; TWIN; COMPONENT; PACKAGE; THREAD; COLLAR; PROJECT; NECK; CONTINUE; UP; HOLD; LID

Technology Focus Original Publication Data by AuthorityArgentinaPublication No. ...Claims:beaker being located within the bottle upon attachment of the cap to the bottle; wherein said inner portion of the collar has a wall of reduced diameter for extending into the bottle neck, the collar including a transition zone and a cylindrical wall of larger diameter, said cylindrical wall of larger diameter extending between said transition zone and said first end of said collar; the reduced-diameter wall passes outwardly via the transition zone into the cylindrical collar wall of larger diameter, the collar with its reduced-diameter wall and its larger...

25/12,K/51 (Item 51 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0005642069

WPI Acc no: 1991-251926/199134 XRAM Acc no: C1991-109353 XRPX Acc No: N1991-192062

Eye-drops application attachment - includes screw-on cylindrical body having eye-cup and

with internal screw threads of different dia.

Patent Assignee: SMITH W L (SMIT-I) Inventor: SMITH W E; SMITH W L

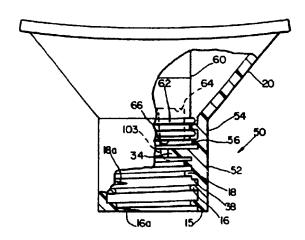
1 patents, 1 countries) Patent Number	Kind	Date	Application Numbe	r Kind	Date	Update Typ
US 5037406	Α	19910806	US 1988208483	Α	19880620	199134 B

Priority Applications (no., kind, date): US 1988208483 A 19880620

### Alerting Abstract US A

Eye drops applicator attachment for a bottle with a drop-forming nozzle includes a screw-on bottle attachment (50) which has an eye cup (20), and two internal screw threads (16,18) of different dia. to suit corresp. screw necks of bottles. An internal thread (56) at the eye cup (20) base receives a closure plug (62) with an external thread (62).

### Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: EYE; DROP; APPLY; ATTACH; SCREW; CYLINDER; BODY; CUP; INTERNAL; THREAD; DIAMETER

Original Abstracts: with the larger diameter being adjacent the open end of the body. Thus, the applicator attachment may be attached to a squeeze bottle with a larger diameter neck, or to a squeeze bottle with a smaller diameter neck. In an alternate embodiment, axially of the threads for engagement with the neck of a bottle, there is an extension having a third female thread... ... engage with a surface thereof the end of the drop-forming nozzle. There are also provided an alternate embodiment in which a stopper and an attachment body have mating double threads, and the stopper has gripping means on the exterior or interior thereof. Further, a combined lid and stopper may be...

26/12,K/4 (Item 4 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0018933266

WPI Acc no: 1988-030778/198805

Sealed container for milk or similar liq. - made in shape of bottle with two threaded rings of different diameters on neck, for sealing cap and retaining ring

Patent Assignee: SOPAD SOC PROD ALIM (SOPA-N)

Inventor: ESPINASSE G

1 patents, 1 countries ) Patent Number	Kinc	Date	Application	Number Kind	Date	Update Type
FR 2599339	Α	19871204	FR 19867799	A	19860530	198805 B

Priority Applications (no., kind, date): FR 19867799 A 19860530

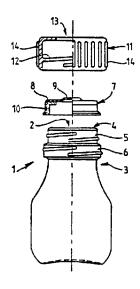
## Alerting Abstract FR A

The sealed container consists of a bottle (1) with its neck (3) made with two threaded rings (5,6) of different diameters -a small one at the top and a larger one beneath it. The smaller-diameter ring is made to take a sealing cap (8), e.g. of metal, with an inner sealing joint (10) and a central pressure element (9) to indicate the condition of the contents.

The **larger thread**ed section of the **neck** is made to take a **thread**ed **ring** (11) e.g. of plastic which has a central aperture (13). The **container** can be used for baby feed, in which case the plastic **thread**ed **ring** can be used to hold a teat attached to the **top**.

USE - Safe packaging of a sterilised or pasteurised product.

## Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: SEAL; CONTAINER; MILK; SIMILAR; LIQUID; MADE; SHAPE; BOTTLE; TWO; THREAD; RING; DIAMETER; NECK; CAP; RETAIN

26/12,K/22 (Item 22 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0016233004

WPI Acc no: 2006-764649/200678 XRPX Acc No: N2006-592064

Closure caps for closing bottle, has internal olive-shaped sealing lip provided with concave circumferential recess with venting characteristics, where circumferential recess extends

# continuously around sealing lip

Patent Assignee: ANONYMOUS (ANON)

1 patents, 1 countries ) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
RD 460040	Α	20020810	RD 2002460040	Α	20020810	200678	В

Priority Applications (no., kind, date): RD 2002460040 A 20020810

### Alerting Abstract RD A

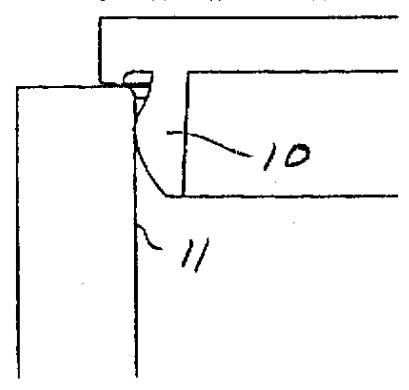
NOVELTY - The **caps** have an internal olive-shaped **sealing lip** (12) for **sealing** against a **bottle neck**. An outer **diameter** of the **lip** is slightly **larger** than an **inner diameter** of the **bottle neck** for ensuring that the **sealing lip** is pressed against an **inner** wall of the **bottle neck**. The **lip** is provided with a concave **circumfer**ential recess (13) with venting characteristics. The recess extends continuously around the **lip**. Due to the recess, high flow venting starts immediately after breaking of the **seal**.

USE - Used with **screw thread**s and bayonet closures for closing **bottle**s for beverages containing carbon dioxide.

ADVANTAGE - The internal olive-shaped **sealing lip** is provided with the concave **circumfer**ential recess with improved venting characteristics, thus avoiding missile effect.

DESCRIPTION OF DRAWINGS - The drawing shows a **sealing lip**.

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: CLOSURE; CAP; CLOSE; BOTTLE; INTERNAL; OLIVE; SHAPE; SEAL; LIP; CONCAVE; CIRCUMFERENCE; RECESS; VENT; CHARACTERISTIC; EXTEND; CONTINUOUS

26/12,K/51 (Item 51 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0011239165

WPI Acc no: 2002-178776/200223 Related WPI Acc No: 2000-421498 XRPX Acc No: N2002-135939

Sipper tube cap for drinking bottles for animal has stopper forming water tight seal when

cap is screwed onto bottle

Patent Assignee: LAB PROD INC (LABL-N) Inventor: MOFFAT E; MURRAY D R

1 patents, 1 countries ) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6345741	В1	20020212	US 1999282002	Α	19990329	200223	В
			US 2000542153	Α	20000404		

Priority Applications (no., kind, date): US 1999282002 A 19990329; US 2000542153 A 20000404

# Alerting Abstract US B1

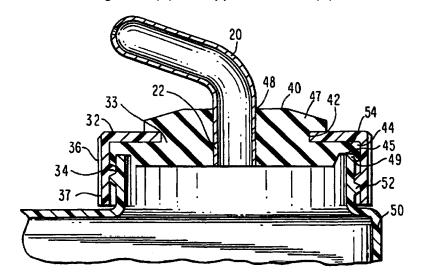
NOVELTY - Sipper **tube cap** assembly (10) is provided having **cap** with flat surface and curved wall (37). **Circumfer**ential flange (32) is formed by flat surface and further defines opening in **cap**. **Stop**per (40), having hole (48) formed, is positioned in **cap** by **circumfer**ential flange to retain **stop**per **within cap**. Finally, sipper **tube** (20) is provided which is positioned **within** hole in **stop**per, to ext**end** through opening.

USE - Sipper tube cap for drinking bottles for animal

DESCRIPTION OF DRAWINGS - The drawing shows a cross sectional view depicting the sipper **tube** cab assembly connected to a standard industry **threaded bottle** 

- 10 sipper tube cap assembly
- 20 sipper tube
- 32 circumferential flange
- 37 curved wall
- 40 stopper
- 48 hole

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: TUBE; CAP; DRINK; BOTTLE; ANIMAL; STOPPER; FORMING; WATER; TIGHT; SEAL; SCREW

Claims: and capable of forming a water tight seal when inserted on said bottle, said stopper having a hole therein, said stopper being maintained in said cap by said circumferential flange, said

stopper including a first lip, a second lip and a neck positioned between said first and second lips and disposed within said cap opening, said neck and said second lip each having a diameter, the opening in said cap having a diameter less than said neck and said diameter of said first lip being at least as great as the diameter of said circumferential flange; and a sipper tube adapted to be...

26/12,K/65 (Item 65 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0009284165

WPI Acc no: 1999-213762/199918 XRPX Acc No: N1999-157287

Combination closure cap and pre-measured dispenser for measuring an amount of

substance dispensed from a bottle Patent Assignee: GARGANO C (GARG-I)

Inventor: GARGANO C

1 patents, 1 countries) Patent Number	Kind	Date	Application	Number Kin	ıd Date	Update Type
US 5881894	V	Announcement	US 1997863:		19970527	£

Priority Applications (no., kind, date): US 1997863256 A 19970527

### Alerting Abstract US A

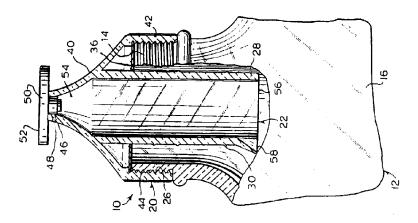
NOVELTY - The **cap** (20) and **dispenser** (10) has a skirt dep**end**ing from a cone shaped cover wall (40) for releasably engaging and **sealing** a **thread**ed **bottle** (12) **neck** (14) via a twist-off closure (24) and a spiraling skirt (42) internal **thread** (44). A transparent measuring vial (22) interconnecting the **seal** has a fill line (30) to indicate the predetermined amount of substance needed to be poured through the **bottle neck**.

DESCRIPTION - The measuring vial has an enlarged base retained in the seal, by skirt nubs which extend around the inner side between the thread and the cover wall connection, and fit over the threaded neck to allow the vial to extend into the threaded neck. The dispensing ends of the vial also has a circumference smaller than that of the threaded neck and provides a passage to a stopper (50) for a pouring substance into the vial. The stopper closes a cover wall extending recess (46) and has a flat base for supporting the bottle cap and dispenser in an inverted position. USE - For measuring the amount of substance, such as medicine, dispensed from a bottle. ADVANTAGE - The closure and measuring vial are combined so that the neck of a medicine bottle can be detachably sealed and the medicine can be poured into the vial to be measured and then dispensed therefrom. Simple and easy to use, prevents spillage and contamination of the medicine caused by drinking from the measuring vial. Economical to manufacture.

DESCRIPTION OF DRAWINGS - The figure shows an elevation view, broken away and partly in cross section, of the **comb**ination **bottle cap** and pre-measured medicine **dispenser** attached to the **neck** of a medicine **bottle**:

- 10 Pre-measured dispenser
- 12 Bottle
- 14 Bottle neck
- 20 Cap
- 22 Measu**ring** vial
- 24 Twist closure
- 30 Fill line
- 40 Cone shaped cover wall
- 42 Spiraling skirt
- 44 Internal thread of spiraling skirt
- 46 Cover wall recess
- 50 Stopper

### Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: COMBINATION; CLOSURE; CAP; PRE; MEASURE; DISPENSE; AMOUNT; SUBSTANCE; BOTTLE

26/12,K/66 (Item 66 from file: 350) DIALOG(R)File 350: Derwent WPIX

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#### 0009076005

WPI Acc no: 1998-501097/199843 XRAM Acc no: C1998-151153 XRPX Acc No: N1998-391660

Container for radiation sensitive composition - comprises a synthetic resin container mainbody, which has neck with the diameter smaller than that of a body formed at the lower part of a mouth to which a cap is threaded and an larger-diameter area formed at the upper part of the neck

Patent Assignee: MITSUBISHI CHEM CORP (MITU) Inventor: ISHIDA H; NISHI M; SAKAMOTO K

1 patents, 1 countries ) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 10218225	Α	19980818	JP 199732630	Α	19970131	199843	В

Priority Applications (no., kind, date): JP 199732630 A 19970131

#### Alerting Abstract JP A

The **container** comprises a synthetic resin **container** mainbody, which has a **neck** with the **diameter smaller** than that of a body formed at the **lower** part of a mouth to which a **cap** is **threaded** and an **larger-diameter** area formed at the upper part of the **neck**, and a handling member mounted on the **neck** at the **lower** part of the **larger-diameter** area of the **container** mainbody.

ADVANTAGE - The **container** is excellent in transportation and handling work to stably preserve radiation sensitive composition for a long time.

Title Terms / Index Terms / Additional Words: CONTAINER; RADIATE; SENSITIVE; COMPOSITION; COMPRISE; SYNTHETIC; RESIN; NECK; DIAMETER; SMALLER; BODY; FORMING; LOWER; PART; MOUTH; CAP; THREAD; LARGER; AREA; UPPER

**Documentation Abstract** The **container** comprises a synthetic resin **container** mainbody, which has a **neck** with the **diameter smaller** than that of a body formed at the **lower** part of a mouth to which a **cap** is **thread**ed and an **larger-diameter** area formed at the upper part of the **neck**, and a handling member mounted on the **neck** at the...

26/12,K/74 (Item 74 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0008461022

WPI Acc no: 1997-374093/199735 XRAM Acc no: C1997-120729 XRPX Acc No: N1997-310519

Plastic tube with tubular body having screw cap and threaded neck - having shoulder at transition to polygon tube with flat side faces, used for containing cosmetic materials Patent Assignee: CEBAL VERPACKUNGEN (CEBA-N); CEBAL VERPACKUNGEN GMBH (CEBA-N)

Inventor: DUJARDIN F; FROEHLING R

6 patents, 21 countries Patent Number	) Kind	Date	Application	Number	Kind	Date	Update Type
DE 19602258	A1 1	9970724	DE 19602258	}	Α	19960123	199735 B

Priority Applications (no., kind, date): DE 19602258 A 19960123

#### Alerting Abstract DE A1

Threaded neck (2) of a plastic tube, e.g. for containing cosmetic materials, has a shoulder (2b) at the base, while the abutting end forms a polygon. At least two side faces of the tube body run from the transition point between the shoulder and the tube are flat down to the base of the tube. Preferably the shoulder is square, preferably convex, with a square region at the transition to the tube body. By selection of an elastic, flexible plastic material for the shoulder, a screw cap can be screwed on and, at the end of the screw action, a friction force can be overcome to form a snap connection (2a1, 2a2) with the neck a seal. Also claimed is a method for manufacture of the plastic tube from an extruded thermoplastic tube.

ADVANTAGE - Screw cap is secured with sealing action on tube

Title Terms / Index Terms / Additional Words: PLASTIC; TUBE; BODY; SCREW; CAP; THREAD; NECK; SHOULDER; TRANSITION; POLYGONAL; FLAT; SIDE; FACE; CONTAIN; COSMETIC; MATERIAL

Claims:cap comprises a top wall with a square or rectangular shape and a sleeve extending in a longitudinal direction from a bottom of the screw cap, the internal thread being formed in the sleeve, wherein the neck has at a transition point to the shoulder a circumferential bead, two diametrically oppositely located projections being mounted on the bead, the sleeve having an end face with diametrically oppositely located recesses, wherein the projections engage in the recesses for effecting the locking and snap-type connection.

26/12,K/75 (Item 75 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0008449899

WPI Acc no: 1997-181602/199717 XRAM Acc no: C1997-058649 XRPX Acc No: N1997-149418

Child-resistant container - has circumferential beads with interruptions at different positions around neck or collar and relatively rotatable lid with locking member

Patent Assignee: RPC CONTAINERS LTD (REED)

Inventor: MARTIN C; MARTIN C J

2 patents, 12 countries ) Patent Number	Kind	Date	Application	Number	Kind	Date	Update Type
EP 763478	Α1	19970319	EP 19963066	48	Α	19960913	199717 B

Priority Applications (no., kind, date): GB 199518960 A 19950915

#### Alerting Abstract EP A1

A child-resistant **container** has a **neck** with >=2 **circumfer**ential **bead**s (13,15) each with an interruption at a **differ**ent radial position, and a **lid** (18) rotatable w.r.t. the **neck** and having a locking member (30) which engages with the **lowest bead** when closed.

Also claimed is a child-resistant closure with a collar for **fixing** to a **container neck** and having **bead**s with interruptions, and a **lid** rotatable w.r.t. the collar and having a locking member to engage the **lowest bead**.

USE - The container is partic, used as a medicine bottle.

ADVANTAGE - The **lid** cannot be opened without successive alignment and lifting even if not rotated after closing the **lid**.

Title Terms / Index Terms / Additional Words: CHILD; RESISTANCE; CONTAINER; CIRCUMFERENCE; BEAD; INTERRUPT; POSITION; NECK; COLLAR; RELATIVELY; ROTATING; LID; LOCK; MEMBER

Original Abstracts: A child resistant closure (CRC) 14 forms part of a container 1. The container 1 has a neck 12 comprising at least two circumferential beads 13, 15. Each of the beads has a respective interruption 34, 36 at respectively different radial positions. The CRC also has a lid 18 rotatable relative to the neck and formed with a locking member 30 which engages with the lowest bead 36 in the closed position. The CRC could instead be... Claims: 1. A container having a child resistant dispensing closure, the container having a neck comprising at least two circumferential beads each of which is formed with an interruption at a different respective radial position, said child resistant dispensing closure comprising a lid which is rotatable relative to the neck, and which is formed with a locking member which engages with the lowest bead on the container when the lid...

26/12, K/76 (Item 76 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008417218

WPI Acc no: 1997-534734/199749 XRPX Acc No: N1997-445249

Dynamic joint for sealable container - has engagement end with inner engagement wall that merges into inner cap wall and abutment end and neck region having neck wall extending from ledge

Patent Assignee: SPATZ LAB (SPZL)

Inventor: COCHRAN M A

1 patents, 1 countries) Patent Number	Kind	Date	Application Number	Kind	Date	Update Type
US 5680946	Α	19971028	US 1995518685	Α	19950824	199749 B

Priority Applications (no., kind, date): US 1995518685 A 19950824

## Alerting Abstract US A

The joint is between the engagement **end** of a **cap** and the **neck** region of a base. The engagement **end** has an **inner** engagement wall that merges into an **inner cap** wall and an abutment **end** and the **neck** region has a **neck** wall that ext**end**s from a **ledge** comprising

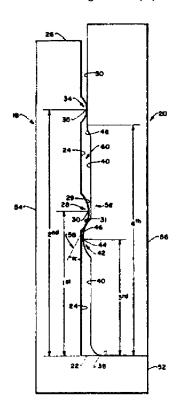
a **cap** rib projecting inwardly from the **inner** engagement wall having a **cap** crest portion and a rear contact portion. A first base rib projects outwardly from the **neck** wall having a first crest portion and a back contact portion.

The first base rib and cap rib are engaged with each other by offset sealing contact between the back contact portion and the rear contact portion when the abutment end is in contact with the ledge. A second base rib extends radially out from the neck wall a distance less than the first base rib but a distance sufficient to make sealing contact with the inner cap wall when the abutment end is in

contact with the ledge.

USE - For containers enclosing a sensitive product, e.g. in the drug and cosmetics field.

### Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: DYNAMIC; JOINT; SEAL; CONTAINER; ENGAGE; END; INNER; WALL; MERGE; CAP; ABUT; NECK; REGION; EXTEND; LEDGE

Original Abstracts: A dynamic joint connection is provided between the neck region of a base and the engagement end of a cap. The neck region comprises a reduced diameter end of the base which is offset from the base outer wall by a flat ledge. Located above the ledge a first axial distance, is a...

26/12,K/78 (Item 78 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0008169069

WPI Acc no: 1997-270976/199724 XRPX Acc No: N1997-224631

Dispensing container, e.g. for bath products like shampoo etc., with drainage passages - is supported by base having face including rim edge about periphery of it to define elevated support ridge and recessed end surface with drain slot extending through rim edge

Patent Assignee: REDMOND PROD INC (REDM-N) Inventor: BENDER T M; FITTEN T E; LAY D F

1 patents, 1 countries) Patent Number	Kind	Date	Application Nu	ımber Kind	Date	Update Type
US 5626262	Α	19970506	US 1995477534	Α	19950607	199724 B

Priority Applications (no., kind, date): US 1995477534 A 19950607

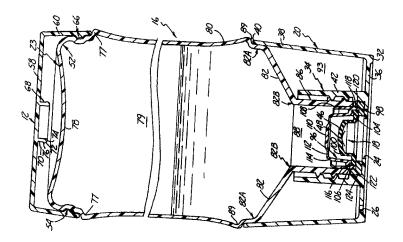
#### Alerting Abstract US A

The dispensing container comprises a **bottle** having an **inner** cavity for storing material, the **bottle** having a main **container** segment having a closed **end** and a **neck**. The **neck** has a mouth opened to the **inner** cavity to connect the **inner** cavity to ambient and defining an opened **end** of the **container**. The cross sectional area of the **neck** is **smaller** than the cross sectional area of the main **container** segment and the **bottle** having a shoulder portion connecting the main **container** segment and the **neck**.

It also has a base for supporting the **container** in an upright position, the base comprising a support face, side wall and a through opening, the support face being dimensioned **larger** than the **neck** of the **bottle**. The side wall extends from the face to define a base cavity in it. The base cavity is sized to house the opened **end** of the **bottle**. The through opening ext**end**s through the face and is coupled with the mouth to collectively define a dispensing opening for discharging material from the **inner** cavity of the **container**. There is a valve operably coupled with the dispensing opening for regulating discharge of material from the **inner** cavity of the **container** and a drain hole ext**end**ing through the face of the base to ambient for fluidly connecting the base cavity to ambient, the drain hole being normally opened to ambient when the **container** is supported at its base for draining fluid from the base cavity.

ADVANTAGE - Reduces contamination of the container and thereby improves hygiene of the product.

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: DISPENSE; CONTAINER; BATH; PRODUCT; SHAMPOO; DRAIN; PASSAGE; SUPPORT; BASE; FACE; RIM; EDGE; PERIPHERAL; DEFINE; ELEVATE; RIDGE; RECESS: END; SURFACE; SLOT; EXTEND; THROUGH

Original Abstracts:extends through the rim ridge for allowing fluid trapped under the rim ridge to escape. The base of the container is formed of a base cap which is coupled to a bottle to form the container. The bottle includes a main container segment, a neck having a diameter sized smaller than the main container segment and a shoulder connecting the main container segment and neck. A wall extends from the face of the base cap to define an interior cavity for the base cap. The base cap is sized so that the neck and shoulder of the bottle fits into the interior cavity of...

26/12,K/82 (Item 82 from file: 350) DIALOG(R) File 350: Derwent WPIX

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WPI Acc no: 1997-043381/199705 XRPX Acc No: N1997-036007

Container e.g. a bottle with improved cap construction - with cap, having ratchet or pawl formations on its inner periphery which engage with radial stops on stepped diameter neck

Patent Assignee: CAMPBELL BROS LTD (CAMP-N) Inventor: BAKER K; STEELE K; TIMBRELL M G

1 patents, 1 countries) Patent Number	Kind	Date	Application	Number	Kind	Date	Update 1	Гуре
AU 199650605	Α	19961024	AU 1996506	05	Α	19960412	199705 E	3

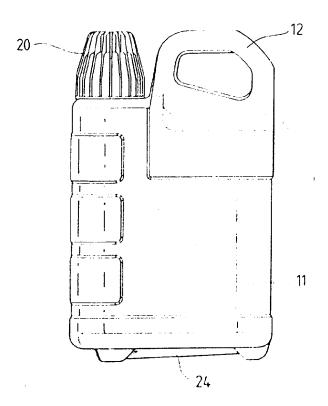
Priority Applications (no., kind, date): AU 19952450 A 19950413

## Alerting Abstract AU A

The **container** (10) has a **stepped diameter neck** (13) having a primary opening which is closed by a **cap** (14) **fit**ted to the **smaller diameter** portion of the **neck** (13). The **cap** (14) has a spigot formation (26) having a **second**ary opening closed by a frangible membrane (17). The spigot (26) may be engaged by a coupling which ruptures the membrane (17) and establishes fluid communication with the interior of the **container** (10).

An overcap (20) is threaded onto the larger diameter portion of the pack (13), over the cap (14). The overcap (20) is provided with strengthening ribs (22), and provides a protective cover for the cap (14). The overcap (20) also serves as a secondary closure for the container if the integrity of cap (14) fails. The container (10) has a well formation in its bottom, and the bottom is shaped to drain into the well formation. A conduit (25) extends from the spigot (26) to the well formation. ADVANTAGE - The container satisfies drop tests and other prescribed requirements for storing dangerous goods.

## Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: CONTAINER; BOTTLE; IMPROVE; CAP; CONSTRUCTION; RATCHET; PAWL; FORMATION; INNER; PERIPHERAL; ENGAGE; RADIAL; STOP;

## STEP; DIAMETER; NECK

26/12,K/86 (Item 86 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0007777502

WPI Acc no: 1996-403398/199641 XRPX Acc No: N1996-339818

Device for sealing containers, especially cans of paint - has lid which can be screwed to top of fixed or added neck on can, and which has perimeter sealing flap to press against part of neck or can

Patent Assignee: DU PONT DE NEMOURS & CO E I (DUPO); HERBERTS GMBH (HERK)

Inventor: BRECHLER J; DAHL J

9 patents, 32 countries Patent Number	) Kind	Date	Application	Number	Kind	Date	Update Type
DE 29610125	U1	19960829	DE 29610125	5	U	19960608	199641 B

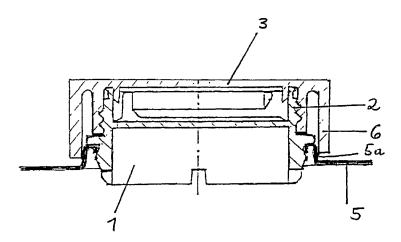
Priority Applications (no., kind, date): DE 29610125 U 19960608; WO 1997EP2908 A 19970604

## Alerting Abstract DE U1

The device has a **lid** (3) to cover a **container** (5), which has a fixed **neck** (1), or a **neck** which can be fixed to it. The upper **end** of the **neck** has a **thread** (2), onto which the **lid** can be **screw** ed. The **lid** has a **diameter** which is **larger** than that of the **neck**, and is surrounded by a **sealing** flap (6). When the **lid** is fully **screw** ed down onto the **neck**, the flap may lie against the upper base of the **container** or a raised part (5a) on this, and / or may lie against a part of the **neck** which is in contact with them.

ADVANTAGE - Has improved **sealing** against the escape of volatile components, in comparison with **seals** which act against thin and flexible walls.

# Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: DEVICE; SEAL; CONTAINER; CAN; PAINT; LID; SCREW; TOP; FIX; ADD; NECK; PERIMETER; FLAP; PRESS; PART

Original Abstracts: a device for closing a container (5) with a pipe-shaped neck (1) which can be fastened or is fastened to said container (5). The top end of said neck is provided with a screw thread (2), and with a cover (3) screwable thereon. The cover (3) has a diameter region which is

larger than the diameter of the neck (1) and is provided with a surrounding sealing tab (6). The device prevents the filling material from diffusing out and enables the emptying process to be simple and complete...... a device for closing a container (5) with a pipe-shaped neck (1) which can be fastened or is fastened to said container (5). The top end of said neck is provided with a screw thread (2), and with a cover (3) screw able thereon. The cover (3) has a diameter region which is larger than the diameter of the neck (1) and is provided with a surrounding sealing tab (6). The device prevents the filling material from diffusing out and enables the emptying process to be simple and complete....Claims:opening and the ceiling of the container (5), which neck (i) is provided at its upper end with a screw thread (2), and having a lid (3) screw able thereon, characterised in that the lid (3), having a diametral area which is larger than the diameter of the neck (1), is provided by a surrounding sealing tab (6) which is guided in its lengthwise extension in the direction of the ceiling of the container (5) in order to lie on the ceiling of the container (5) when the lid is fully screwed on...

26/12,K/91 (Item 91 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0007392510

WPI Acc no: 1995-375601/199549 XRPX Acc No: N1995-277090

Fixing for doser in container - using dosing assembly with cylindrical body and upper collar held in container neck and including cylindrical insert forced into body of doser

Patent Assignee: VALOIS SA (VALO-N)

Inventor: DE POUS O

8 patents, 16 countries ) Patent Number	Kind	Date	Application	Number	Kind	Date	Update	Type
FR 2719292	A1	19951103	FR 19945212	)	Α	19940429	199549	В

Priority Applications (no., kind, date): FR 19945212 A 19940429

#### Alerting Abstract FR A1

The dosing assembly (3) has a cylindrical body (4) with an upper part that is terminated by a collar (5) which is positioned in the cylindrical **neck** (2) of a **container**. The body of the dosing assembly has an external **diameter** that is slightly less than the internal **diameter** of the **neck** of the **container**.

The doser is in close contact with the upper end of the neck of the container with the collar. A cylindrical insert (6) with an outside diameter that is slightly greater than the interior diameter of the body of the doser is forced into the body at the level of the neck of the container.

USE/ADVANTAGE - For dispensing products such as perfumes, cosmetics or pharmaceuticals. Provides an effective, simple and economic fixing arrangement.

**Title Terms** /Index Terms/Additional Words: FIX; DOSE; **CONTAINER**; ASSEMBLE; CYLINDER; BODY; UPPER; COLLAR; HELD; **NECK**; INSERT; FORCE

Claims: be dispensed, the device being characterized in that said body (4) of the metering member (3) has an outside diameter that is slightly smaller than the inside diameter of said cylindrical neck (2) of the receptacle (1) and comes into abutment on the top end of said neck (2) of the receptacle (1) via said flange (5), said device comprising a cylindrical ferrule (6) whose outside diameter is slightly greater than the inside diameter of... ... over at least a portion of its length, the device being characterized in that said body (4) of the metering member (3) has an outside diameter that is slightly smaller than the inside diameter of said cylindrical neck (2) of the receptacle (1), so that the body may be easily inserted without contact into the neck (2) and may come into abutment on the top end of said neck (2) of the receptacle (1) via said flange (5), said ferrule (6) being adapted to be engaged by force in said... a receptacle having a cylindrical neck (2) and containing a substance to be dispensed, b) a metering member having a cylindrical body (4) with

a **top** portion terminated by a flange (5), the metering member **body** having an outside **diameter** slightly **smaller** than an **inside diameter** of said cylindrical **neck** of the receptacle and abutting a **top end** of said **neck** via said flange, and c) a cylindrical ferrule (6) having **an** outside **diameter** slightly greater than **an inside diameter** of **the** metering member body over at least **a** portion of the ferrule length, said ferrule being engaged by force in the metering member body at the **neck** of the receptacle.

26/12,K/93 (Item 93 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0007306300

WPI Acc no: 1995-367809/199548 Related WPI Acc No: 1995-372614 XRAM Acc no: C1995-161543

XRPX Acc No: N1995-272218; N1995-274698

Plastics cap with tamper-evident characteristics - has cap body made up of top panel and skirt-like side wall portion hanging down from peripheral edge of top panel

Patent Assignee: JAPAN CROWN CORK (CROK); JAPAN CROWN CORK CO LTD (CROK); NI PPON

CROWN CORK KK (CROK)

Inventor: DONBURI O; ISHII O; TSUJIGUCHI Y

12 patents, 6 countries Patent Number	) Kind	Date	App	olication	Number	Kind	Date	Update Type
EP 679584	and Names and Association	19951102				£	19950308	

Priority Applications (no., kind, date): JP 199490289 A 19940427; JP 199490290 A 19940427

#### Alerting Abstract EP A1

The plastics **cap** has a peripheral band which is provided at the **lower end** of the skirt-like side wall portion of the **cap** body. The **lower end** of the skirt-like side wall portion outwardly **protru**des and the peripheral band downwardly extends from the **protru**ded portion at the **lower end** via a breaking line (11) that is **circumfer**entially formed leaving a number of bridges (12). There is a downwardly extending stopper piece (20) disposed on the side of closing the **cap** with respect to at least one of the bridges (12).

The stopper piece (20) comes into contact with the bridge (12) at the time of closing the cap, and the cap body and the peripheral band turn together.

ADVANTAGE - There is no need for providing space for forming stoppers between the lower end of the skirt-like side wall and the upper end of the peripheral band portion. Therefore, the coupling portion between the two is easily formed by providing a breaking line in the subsequent working of cutting. The cap is integrally moulded without the need of using a metal mould having complex surface shapes or a split mould, and the rate of production can be enhanced.

Title Terms / Index Terms / Additional Words: PLASTICS; CAP; TAMPER; EVIDENCE; CHARACTERISTIC; BODY; MADE; UP; TOP; PANEL; SKIRT; SIDE; WALL; PORTION; HANG; DOWN; PERIPHERAL; EDGE

Claims:portion and having an outer diameter which is substantially larger than the outer diameter of said side wall portion, wherein:

the inner surface at the upper portion of said side wall portion is threaded so as to be brought into threaded engagement with the outer periphery at the neck portion of a container, the lower end of the side wall portion is outwardly protruding, and said peripheral band portion is downwardly extending from the protruded portion at said lower end via a breaking line that is ci...

26/12,K/100 (Item 100 from file: 350) DIALOG(R)File 350: Derwent WPIX

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0006676905

WPI Acc no: 1994-056075/199407 XRPX Acc No: N1994-044113

Dispensing closure for products such as skin or hair products - has top panel with annular exterior wall and smaller concentrically positioned interior wall aid dispensing notch aligned across opening

Patent Assignee: SCHREIBER A R (SCHR-I)

Inventor: SCHREIBER A R

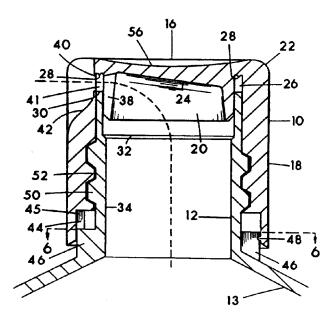
1 patents, 1 countri Patent Number	/ :Kind:	Date	Application Number	Kind	Date	Update <sup>-</sup>	Туре
US 5284273	Α	19940208	US 199358389	Α	19930510	199407 E	В

Priority Applications (no., kind, date): US 199358389 A 19930510

#### Alerting Abstract US A

Depending from a top panel of the cap is an annular exterior wall and a smaller concentrically positioned interior wall with a space between the two walls sized to receive an upper and thinned portion of the container neck with a tight fit providing a fluid seal. The interior wall of the cap contains a dispensing notch which is aligned straight across with a dispensing opening through the exterior wall. With rotation, the cap raises and lowers on threads relative to the container. When the cap is lowered, the container neck blocks the dispensing canal between the notch in the interior wall and the dispensing opening in the exterior wall of the cap. The top rim of the container neck abuts the interior cap ceiling between the two walls to form a seal. The cap and container neck include stop blocks to prevent removal of the cap, and further include cooperative structures. ADVANTAGE - Provides improved sealing more convenient dispensing clearly indicates to the user both an open and a closed dispensing canal and can be stored upside down, supporting the container in a stable position for collecting and dispensing of the last of the container contents.

## Main Drawing Sheet(s) or Clipped Structure(s)



Title Terms / Index Terms / Additional Words: DISPENSE; CLOSURE; PRODUCT; SKIN; HAIR; TOP; PANEL; ANNULAR; EXTERIOR; WALL; SMALLER; CONCENTRIC; POSITION; INTERIOR; AID; NOTCH;

ALIGN: OPEN

Claims:that rotation of said cap on said neck in a first direction causes rising of said cap relative to said neck, and rotation of said cap on said neck in a second direction causes lowing of said cap relative to said neck, an interior of said container neck having at least two diameters with the two diameters including an upper neck portion being a substantially thinned portion tightly and sealingly yet movably fitted between said exterior and interior walls of said cap with said interior wall of said cap positioned within said neck, a narrow top rim of said upper neck portion sealingly abutted against an underside portion of said cap top, the thinned... ... end of said interior wall sealingly abutted against a cooperatively structured angled plane seal within said neck defined by a transition between said at least two diameters in the interior of said container neck, said threading of said cap and said threads of said neck arranged to allow sufficient cap rising so as to allow sufficient withdrawal of the thinned upper portion of said neck to clear said dispensing notch and said dispensing opening and thus open...

26/12,K/122 (Item 122 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0003101466

WPI Acc no: 1984-194732/198431

Removable resistant container cap and neck assembly - has mating threads on container neck and resilient skirt of cap terminating in respective interengageable circumferential beads

Patent Assignee: OWENS-ILLINOIS INC (OWEI)

Inventor: LIBIT S M

10 patents, 8 countries Patent Number	) Kind	Date	Application	Number	Kind	Date	Update Type
US 4460100	Α	19840717	7 US 1983505	347	Α	19830617	198431 B

Priority Applications (no., kind, date): US 1983505347 A 19830617

## Alerting Abstract US A

The **container** is provided with a removal resistant **cap** which can be applied to the **threaded neck** of the **container** by rotational thrust. The **cap** has a depending skirt having an internally **threaded lower** section with the **thread**s terminating in a **circumferential bead** intermediate the skirt **ends**. The **neck** has an upper **thread**ed section with the **thread**s terminating in a **bead** spaced below the **top** of the **neck**.

When the **thread**s of the **cap** are engaged with the **thread**s of the **neck** and the **cap** is rotated relative to the **neck**, the skirt will **circumfer**entially expand so that the skirt **bead** passes over the **neck bead**. At that point, the **thread**s will no longer engage and the interlocked **bead**s will inhibit removal of the **cap**.

Title Terms / Index Terms / Additional Words: REMOVE; RESISTANCE; CONTAINER; CAP; NECK; ASSEMBLE; MATE; THREAD; RESILIENT; SKIRT; TERMINATE; RESPECTIVE; INTERENGAGING; CIRCUMFERENCE; BEAD

Claims: which includes the threaded portion and the inner diameter bead being circumferentially resilient, the outer diameter threads of the neck extending from adjacent the annular top towards a main body of the container, the neck having a diameter increasing outer diameter circumferential bead intermediate the main body and the annular top, the outer diameter threads running out at the outer diameter bead, the inner diameter bead having an inner diameter less than the outer diameter of the outer diameter bead... ... which includes the threaded portion and the inner diameter bead being circumferentially resilient, the outer diameter threads of the neck extending from adjacent the annular top towards a main body of the container, the neck having a diameter increasing outer diameter circumferential bead

intermediate the main body and the annular top, the outer diameter threads running out at the outer diameter bead, the inner diameter bead having an inner diameter less than the outer diameter of the outer diameter bead...

26/12,K/142 (Item 142 from file: 350) DIALOG(R) File 350: Derwent WPIX

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0000977548

WPI Acc no: 1975-J2572W/197533

Bottle neck suitable for fitting metal cap - has gap between two shoulders into which gap is deformed

Patent Assignee: TOYO GLASS CO LTD (TOGL-N)

1 patents, 1 countries) Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре
FR 2248199	Α	19750620	FR 197337249	Α	19731018	197533	В

#### Alerting Abstract FR A

A thin metal cap is deformed over the neck using a roller. The bottle neck has a shoulder (17) a reduced diameter section (18) and an additional lower circumferential ridge (21). The roller (11) deforms the metal cap (12) into the groove (20) formed by the shoulder (17) and the ridge (21), sealing being effected by the shoulders (11a, 11b) on the roller. The support afforded by the lower rim prevents damage and distortion of the lower skirt of the capsule. The top of the neck has a threaded end into the threads of which the cap is deformed before the cap is deformed into the lower groove. The cap is typically aluminium.

Title Terms / Index Terms / Additional Words: BOTTLE; NECK; SUIT; FIT; METAL; CAP; GAP; TWO; SHOULDER; DEFORM

LIST OF CITING DOCUMENTS 2 documents citing GB1302226 (A) 4

Search Strategy

## 1 DISPENSING CONSUMABLE LIQUIDS

Inventor: ROBBINS ZEBULON S III [US]

Applicant: OCEAN SPRAY CRANBERRIES INC

[US]; ROBBINS ZEBULON S III [US]

IPC: B29C49/00; B29C49/48; B65D1/02; (+14)

Publication info: WO0202416 (A2) - 2002-01-10

Child-proof screw cap for container has two threads on container neck and cap with different intervals and ribs

between them

EC: B65D50/06C

**Inventor: TARTAGLIONE ANDRE** 

EC: B29C49/00G; B29C49/48; (+4)

Applicant: SERIPLAST SA [FR]

IPC: B65D50/06; B65D50/00; (IPC1-

7): B65D50/02; (+1)

Publication info: FR2790456 (A1) - 2000-09-08

# DISPENSING CONSUMABLE LIQUIDS

Publication number: WO0202416 (A2)

Publication date:

2002-01-10

Inventor(s):

ROBBINS ZEBULON S III [US]

Applicant(s):

OCEAN SPRAY CRANBERRIES INC [US]; ROBBINS

ZEBULON S III [US]

Classification:

- international:

B29C49/00; B29C49/48; B65D1/02; B65D25/48; B65D43/02;

**B65D47/06**; B29C49/04; B29C49/06; **B29C49/00**; **B29C49/48**; **B65D1/02**; **B65D25/38**; **B65D43/02**; **B65D47/06**; B29C49/04;

B29C49/06; (IPC1-7): B65D1/02

- European:

B29C49/00G; B29C49/48; B65D1/02D1B; B65D25/48;

B65D43/02S7E; B65D47/06

**Application number:** WO2001US20712 20010629 **Priority number(s):** US20000607878 20000630

US6523720 (B1) AU7025101 (A)

CA2381595 (A1)

Also published as:

国 WO0202416 (A3)

Cited documents:

EP0480836 (A2)

GB2034289 (A)

FR2790456 (A1)

US3734332 (A)

US3827593 (A)

GB1302226 (A)

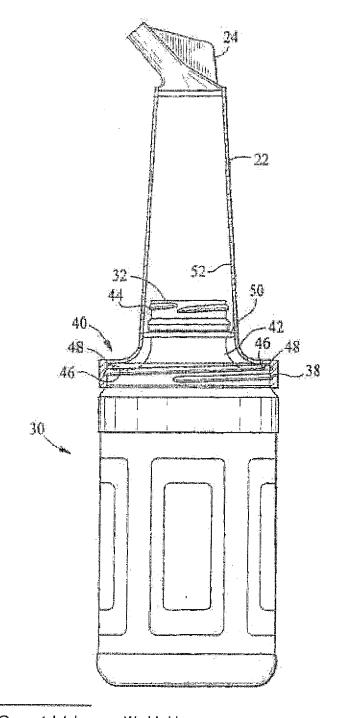
US1983101 (A)

US5840350 (A)

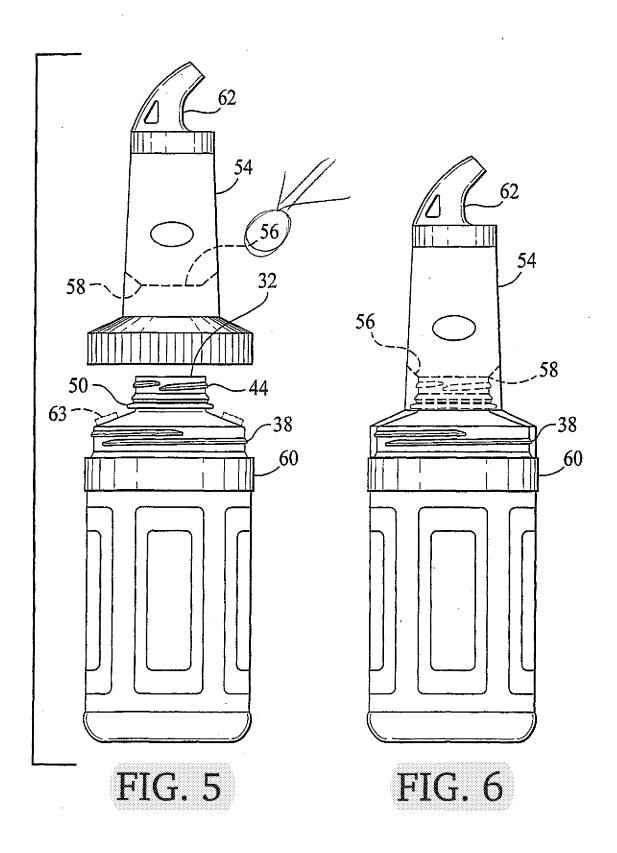
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# Abstract of WO 0202416 (A2)

A container for holding consumable liquids for commercial food service (e.g., bar service) has a body that defines an inner cavity and has a neck extending to an opening. The neck of the container defines a first thread adapted to receive a cap to seal the cavity. The container also defines a second thread, of a diameter larger than the first thread, adapted to mate directly with a thread of a standard threaded pour spout to retain the pour spout on the container for serving liquid from the container cavity. The container is sized to fit within standard bar service speed racks and can be heat-sealed to contain perishable liquids, such as fruit juice or drink mixes.



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**RESULT LIST** 

102 results found in the Worldwide database for:

neck? two diameter\* cap? in the title or abstract AND b65d as the IPC classification

(Results are sorted by date of upload in database)

1 TWO-PIECE SEAL VIAL ASSEMBLY

Inventor: FINNERAN JAMES G [US]

Applicant: J G FINNERAN ASSOCIATES INC

[US]

**EC:** B65D51/00B; A61J1/14; (+1)

IPC: B65D51/00; B65D51/00

Publication info: CA2653678 (A1) — 2007-12-21

2 BABY BOTTLE/BEVERAGE DEVICE

Inventor: SEGOVIA EUGENIO JR [US]

Applicant: SIMPLE INNOVATIONS L L C [US];

SEGOVIA EUGENIO JR [US]

EC: A61J9/00A

IPC: B65D25/08; A61J9/00; B65D25/04; (+1)

Publication info: WO2008154531 (A2) — 2008-12-18

3 NON REFILLABLE AND INVIOLABLE CAP FOR BOTTLES OR

SIMILAR CONTAINERS.

Inventor: STETA GUILLERMO H [MX]

Applicant: GRUPO STEVIS A DE C V [MX]

FC:

IPC: (IPC1-7): B65D39/00

Publication info: MX9501883 (A) — 1997-07-31

TAMPER-EVIDENT SCREW CLOSURE FOR CONTAINERS AND

BOTTLES, IN PARTICULAR FOR PLASTIC BOTTLES

Inventor: ZAUSER THOMAS KARL [AT]; HOCH Applicant: ALPLA WERKE [AT]; ZAUSER

OLIVER [AT]

THOMAS KARL [AT] (+1)

**EC:** B65D41/34D1

IPC: B65D41/34; B65D41/34

Publication info: WO2007031162 (A1) — 2007-03-22

5 PACKAGING

Inventor: ARNAOUDSKI NIKOLAY [BG]

Applicant: ARNAOUDSKI NIKOLAY [BG]

FC.

**IPC:** *B65D81/32; B65B29/10; B65D25/08;* (+5)

Publication info: BG64923 (B1) — 2006-09-29

Closure cap e.g. pilfer-proof cap, for bottle, has skirt

6 comprising upper and lower cylindrical bodies with slightly

different diameters, where bodies are integrated with each

other by number of equidistant valve bridges

Inventor: BORGEAUD BERNARD EDMOND

ALFRED

Applicant: BORGEAUD BERNARD EDMOND

ALFRED [FR]

**EC:** B65D41/34F2; B65D41/34F; (+1)

**IPC:** B65D41/32; B65D41/62; B65D41/32; (+1)

Publication info: FR2882991 (A1) - 2006-09-15

Bottle packaging structure

Inventor: CHEN FANGHE [CN]

Applicant: XIAMEN AMOYTOP BIOTECH CO

LTD [CN]

IPC: B65D5/44; B65D5/44

Publication info: CN2778703 (Y) — 2006-05-10

Wall spliting type simple carrying ring

Inventor: GUO YONGJUN [CN]

Applicant: GUO YONGJUN [CN]

EC:

IPC: *B65D41/38; B65D25/22;* B65D41/34; (+1)

Publication info: CN2776880 (Y) — 2006-05-03

Glass bottle for e.g. drink or household liquids has neck with two rings separated by a detent with a rounded locking

# Two-part cap for a container containing a flowable substance comprises annular sealing skirts pointing downward on each of two covering surfaces between an upper and middle region and between a middle and lower region of an upper part

Publication number: CH693064 (A5)

Publication date:

2003-02-14

Inventor(s):

TANNER HANS-PETER [CH]

Applicant(s):

KISLING & CIE AG S [CH]

Classification:

- international:

B65D47/24; B65D47/04; (IPC1-7): B65D47/24; B65D41/02

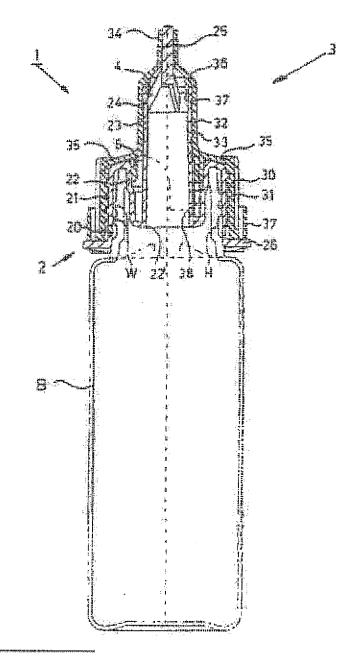
- European:

B65D47/24A1

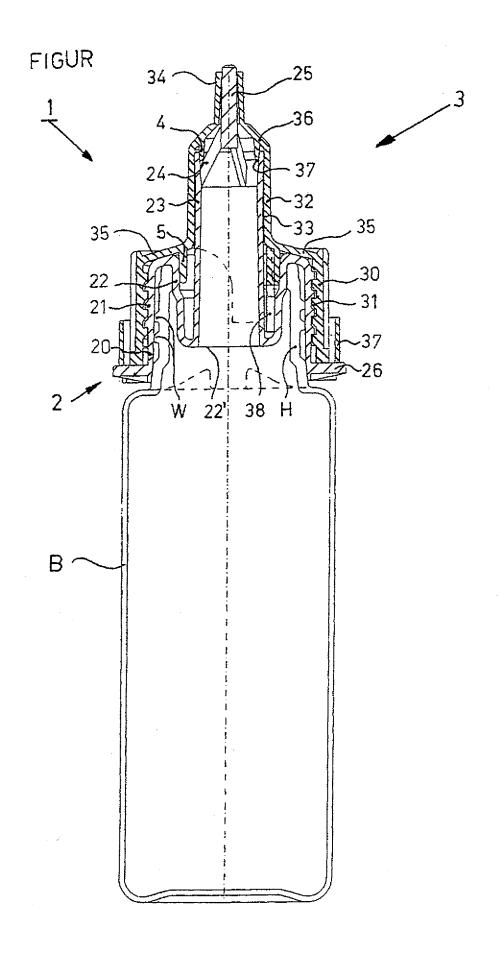
**Application number:** CH19980002484 19981216 **Priority number(s):** CH19980002484 19981216

## Abstract of CH 693064 (A5)

Two-part cap (1) made of plastic comprises a lower part (2) tightly held on a container neck (H) and having a cylindrical sleeve (20) with an external thread (21) surrounding the neck, and an upper part (3) with an internal thread (31) placed on the lower part. A section (22) protruding into the container neck and lying tightly on the container neck at least in the upper region extends from the lowest point (22') as an approximately cylindrical delivery tube (23) holding a central sealing pin (25) using connecting bars (24). The upper part has three concentric cylindrical regions (30, 32, 34) having diameters which decrease upward. The two sections between the concentric regions are designed as annular covering surfaces (35, 36). An annular sealing skirt (4, 5) pointing downward is provided on each of the two covering surfaces between the upper (34) and middle region (32) and between the middle and lower region (30) of the upper part. The sealing skirts lie on the sec tion and the delivery tube. Preferred Features: The first sealing skirt on the covering surface between the upper and middle region has a conical cross-section tapering downward.



Data supplied from the esp@cenet database — Worldwide



# Bottle fitted with a sealing stopper cap with an internal sealing skirt

Publication number: FR2536256 (A2)

Publication date:

1984-05-25

Inventor(s):

**GONCALVES ANTONIN** 

Applicant(s):

OREAL [FR]

Classification:

- international:

A45D34/00; B65D41/04; A45D34/00; B65D41/04; (IPC1-

7): A45D34/00

- European:

A45D34/00; B65D41/04B

Application number: FR19820019422 19821119

**Priority number(s):** FR19820019422 19821119

Also published as:

FR2536256 (B2)

Cited documents:

副 DE2828100 (A1)

FR2454976 (A1)

FR2200160 (A2)

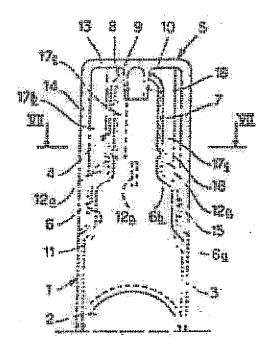
| FR2200100 (A2)

US3360147 (A)

US3125237 (A)

# Abstract of FR 2536256 (A2)

The stopper cap 5 of the bottle 1 is constituted from two coaxial skirts connected to each other by a base 13, the outer skirt 14 having a diameter greater than that of the pouring orifice 9 of the bottle 1, and internally carrying a thread 15 cooperating with an external thread 11 formed on the neck of the bottle 1. The cap 5 comprises radial fins 17b, 17c for precentring its skirt 16 in the outlet orifice 9 and the neck carries radial fins 12a constituting stops for two longer fins 17b when the cap 5 is in its stopping position. Furthermore, the neck 4 comprises, above the fins 12a, an annular boss 18 having a cylindrical rough outer wall allowing the attachment of the fins 17b, 17c.; In this way it is ensured that the cap 5 cannot be freely manoeuvred through the angle from which a fin 17b can be offset with respect to the fin 12a, on the assumption that, because of manufacturing tolerances of the neck 4, the cap 5 has descended lower than expected on the neck 4.





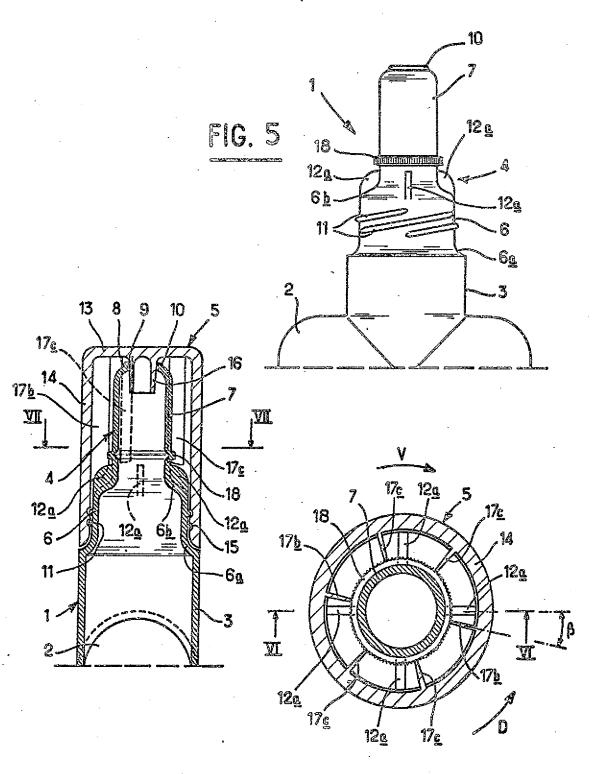


FIG. 6

FIG. 7

# Flask fitted with a leak-proof stopper cap with an internal sealing skirt.

Publication number: FR2531408 (A1)

Publication date:

1984-02-10

Inventor(s):

**GONCALVES ANTONIN** 

Applicant(s):

OREAL [FR]

Classification:

- international:

A45D34/00; B65D41/04; A45D34/00; B65D41/04; (IPC1-

7): B65D41/08; A45D34/00

- European:

A45D34/00; B65D41/04B1; B65D41/04E

Application number: FR19820013571 19820803 Priority number(s): FR19820013571 19820803 Also published as:

FR2531408 (B1)

BE897445 (A1)

Cited documents:

AT312498B (B)

FR1049059 (A)

US3731849 (A)

FR724589 (A)

FR1047251 (A)

FR1371613 (A)

DE2828100 (A1)

U\$3217915 (A)

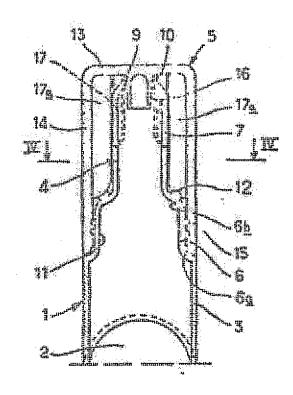
FR2454976 (A1)

FR2036272 (A5)

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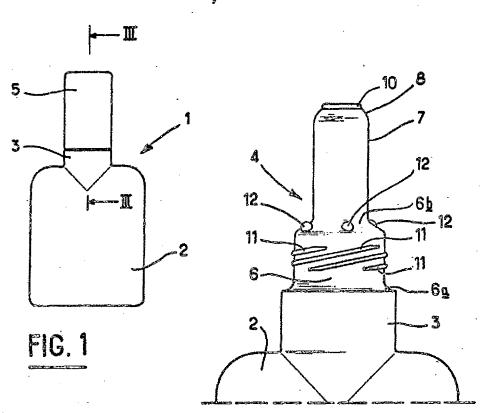
## Abstract of FR 2531408 (A1)

Flask fitted with a leak-proof stopper cap with an internal sealing skirt. The stopper cap 5 of the flask 1 is constituted from two coaxial skirts connected to each other by a base 13, the outer skirt 14 having a diameter greater than that of the pouring orifice 9 of the flask 1, and internally carrying a thread 15 cooperating with an external thread 11 formed on the neck 4 of the flask 1. The neck 4 is narrowed at the upper part in order to form a diameter reducing element 7 which comprises, at its upper end, the pouring orifice 9. The sealing of the stopping is ensured by the penetration of the inner skirt 16 of the cap 5 into the orifice 9. Furthermore, the cap 5 comprises radial fins 17 for pre-centring the skirt 16 in the outlet orifice 9 and the reducing element 7 carries external bosses 12 constituting stops for the longest fins 17a when the cap 5 is in its stopping position.



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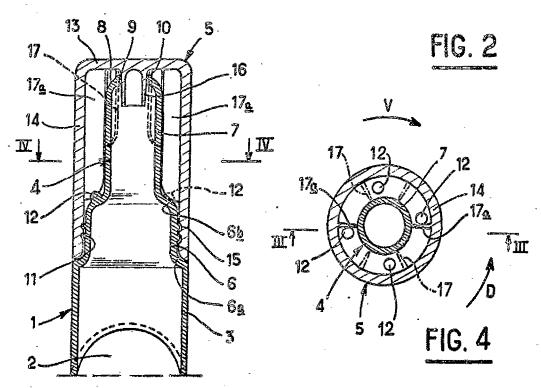


FIG. 3

Also published as:

🔁 US3592349 (A)

BE750714 (A1)

## CONTAINER AND CLOSURE

Publication number: GB1267909 (A)

Publication date:

1972-03-22

Inventor(s):

Applicant(s): Classification: ETHYL DEV CORP [US]

ETITE DEV CORE [00]

- international:

B65D41/04; B65D41/18; B65D41/28; B65D47/06; B65D41/02;

**B65D41/04**; **B65D47/06**; (IPC1-7): B65D41/22

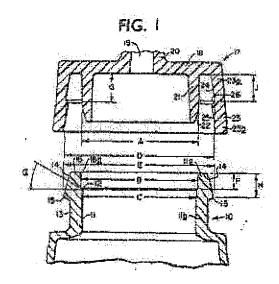
- European:

B65D41/04B1; B65D41/18B; B65D41/28; B65D47/06

**Application number:** GB19700024198 19700519 **Priority number(s):** US19690826952 19690522

## Abstract of GB 1267909 (A)

1,267,909. Bottle Closure. ETHYL DEVELOPMENT CORP. 19 May, 1970 [22 May, 1969], No. 24198/70. Heading B8T. A plastics cap 17, for a plastics bottle has a top wall 18 and two depending skirts 21, 23. The neck 10 of the bottle has region 11a, adjacent the mouth of the bottle, of greater internal diameter than that of the remainder of the neck 11b. The cap is retained on the bottle by the interaction between a shoulder 15 on the bottle neck and step 26 on the outer skirt of the cap. Sealing is provided by the interaction between the inner skirt 21 and the neck regions 11a and 11b. The cap also has a dispensing spout 20. In another embodiment the cap is retained on the bottle neck by screw threads. Details of dimensions and materials are given



RESULT LIST

4 results found in the Worldwide database for:

neck two diameter\* dispenser\* in the title or abstract AND b65d as the IPC classification (Results are sorted by date of upload in database)

Search Stratigy

1 Calculated dose medicine dispenser

Inventor: ZAMJAHN DAVID B [US]

Applicant: ZAMJAHN DAVID B

IPC: G09F11/23; G09F11/00; (IPC1-

7): B65D51/00

Publication info: US2004206295 (A1) - 2004-10-21

2 Non-spill bottle cap

EC: G09F11/23

Inventor: BIETZER STEVEN [US]; ADAMS

Applicant: PORTOLA PACKAGING INC [US]

BRIAN M [US] (+1)

EC: B65D41/48; B67D3/00H2

IPC: *B65D41/48; B67D3/00;* B65D41/32; (+4)

Publication info: US5909827 (A) — 1999-06-08

Device for the delivery of spherical products of the same

dimensions, such as pills.

Inventor: BENARROUCH JACQUES [FR]

Applicant: BOIRON [FR]

EC: B65D83/04A

IPC: B65D83/04; B65D83/04; (IPC1-

7): B65D83/04

Publication info: EP0658489 (A1) — 1995-06-21

PLASTIC CONTAINER WITH LOCKABLE DISPENSING

CLOSURE

Inventor: HAFELE R

Applicant: ETHYL DEV CORP

EC: B65D47/20E4B

IPC: B65D47/20; B65D47/04; (IPC1-

7): B65D25/44

Publication info: US3777948 (A) - 1973-12-11

# Non-spill bottle cap

Publication number: US5909827 (A)

Publication date:

1999-06-08

Inventor(s):

BIETZER STEVEN [US]; ADAMS BRIAN M [US]; LUCH DANIEL

[US]

Applicant(s):

PORTOLA PACKAGING INC [US]

Classification:
- international:

B65D41/48; B67D3/00; B65D41/32; B67D3/00; (IPC1-

7): B67D5/00; B65D39/00; B67D5/56

- European:

B65D41/48; B67D3/00H2

Application number: US19980156803 19980917

Priority number(s): US19980156803 19980917; US19970785201 19970117;

US19950441322 19950515; US19950368752 19950104;

US19930016577 19930210

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Cited documents:

🗐 US4256233 (A)

3 US4784296 (A)

🖹 US5232125 (A)

🗐 US5318198 (A)

🗐 US5513763 (A)

3 US5687865 (A)

🗐 US5711441 (A)

## Abstract of US 5909827 (A)

A two-piece cap for a water bottle comprises a main cap which has an annular top disk formed with a depending central well having three levels, each of a slightly smaller diameter. The main cap skirt which depends from the periphery of the top disk has an upper cylindrical portion formed with a truncated internal screw thread which merges into a horizontal bead extending about 180 DEG around the interior of the cap and terminates in a reverse thread portion which extends upward to merge with the leading edge of the truncated screw thread. Below the upper skirt portion is a downward-outward slanted conical portion merging with a lower cylindrical skirt portion having an internal locking bead. A first vertical score line extends from the bottom edge of lower skirt portion to the upper edge of the slanted portion. A second vertical score line, spaced a short distance from the first vertical score line, extends from the bottom edge of the lower skirt portion to the top disk. A tear tab depends between the two vertical score lines. The main cap fits onto a bottle neck having a top portion externally threaded to mate with the internal thread of the cap. Below the top bottle portion is an external bead under which the internal locking bead of the cap seats to make the cap tamper-evidencing. A plug having a closed bottom and a smooth exterior fits into the bottom of the well. The plug has an upper taper to assist in inserting the plug into the bottom of the well followed by three levels, each of slightly larger diameter to seal the central well. An external bead limits inward movement of the plug into the well. An internal bead in the upper end of the plug seats in a groove adjacent the upper end of a water dispenser tube.

